



## Full wwPDB EM Validation Report ⓘ

Nov 15, 2022 – 12:15 PM JST

PDB ID : 6L35  
EMDB ID : EMD-0821  
Title : PSI-LHCI Supercomplex from *Physcometrella patens*  
Authors : Zhao, L.; Yan, Q.J.; Qin, X.C.  
Deposited on : 2019-10-09  
Resolution : 3.23 Å (reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

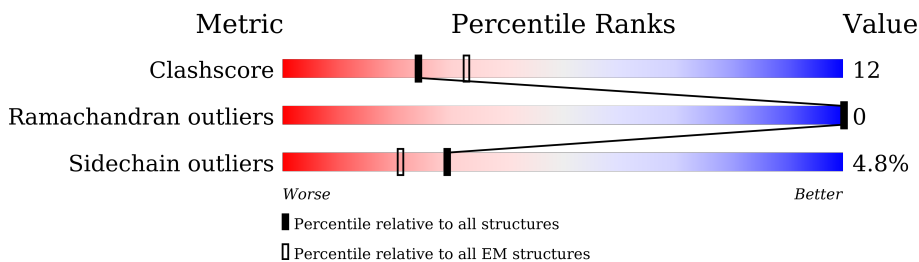
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.23 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	742	 77% 22%
2	B	733	 77% 22%
3	C	80	 6% 70% 25% 5%
4	D	141	 6% 83% 16%
5	E	62	 13% 71% 27%
6	F	159	 9% 74% 24%
7	G	98	 24% 68% 28%
8	H	90	 93% 79% 20%

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Mol	Chain	Length	Quality of chain
9	I	34	
10	J	41	
11	K	79	
12	L	159	
13	M	29	
14	2	210	
15	6	192	
16	3	213	
17	5	205	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
18	CLA	2	602	X	-	-	-
18	CLA	2	603	X	-	-	-
18	CLA	2	604	X	-	-	-
18	CLA	2	609	X	-	-	-
18	CLA	2	610	X	-	-	-
18	CLA	2	611	X	-	-	-
18	CLA	2	612	X	-	-	-
18	CLA	2	613	X	-	-	-
18	CLA	2	614	X	-	-	-
18	CLA	3	602	X	-	-	-
18	CLA	3	603	X	-	-	-
18	CLA	3	604	X	-	-	-
18	CLA	3	606	X	-	-	-
18	CLA	3	607	X	-	-	-
18	CLA	3	609	X	-	-	-
18	CLA	3	610	X	-	-	-
18	CLA	3	611	X	-	-	-
18	CLA	3	612	X	-	-	-
18	CLA	3	613	X	-	-	-
18	CLA	3	614	X	-	-	-
18	CLA	3	615	X	-	-	-
18	CLA	3	617	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
18	CLA	5	601	X	-	-	-
18	CLA	5	602	X	-	-	-
18	CLA	5	603	X	-	-	-
18	CLA	5	604	X	-	-	-
18	CLA	5	609	X	-	-	-
18	CLA	5	610	X	-	-	-
18	CLA	5	611	X	-	-	-
18	CLA	5	612	X	-	-	-
18	CLA	5	613	X	-	-	-
18	CLA	5	614	X	-	-	-
18	CLA	6	602	X	-	-	-
18	CLA	6	603	X	-	-	-
18	CLA	6	604	X	-	-	-
18	CLA	6	606	X	-	-	-
18	CLA	6	608	X	-	-	-
18	CLA	6	609	X	-	-	-
18	CLA	6	610	X	-	-	-
18	CLA	6	611	X	-	-	-
18	CLA	6	612	X	-	-	-
18	CLA	6	613	X	-	-	-
18	CLA	6	614	X	-	-	-
18	CLA	6	616	X	-	-	-
18	CLA	A	801	X	-	-	-
18	CLA	A	802	X	-	-	-
18	CLA	A	803	X	-	-	-
18	CLA	A	804	X	-	-	-
18	CLA	A	805	X	-	-	-
18	CLA	A	806	X	-	-	-
18	CLA	A	807	X	-	-	-
18	CLA	A	808	X	-	-	-
18	CLA	A	809	X	-	-	-
18	CLA	A	810	X	-	-	-
18	CLA	A	811	X	-	-	-
18	CLA	A	812	X	-	-	-
18	CLA	A	813	X	-	-	-
18	CLA	A	814	X	-	-	-
18	CLA	A	815	X	-	-	-
18	CLA	A	816	X	-	-	-
18	CLA	A	817	X	-	-	-
18	CLA	A	818	X	-	-	-
18	CLA	A	819	X	-	-	-
18	CLA	A	820	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
18	CLA	A	821	X	-	-	-
18	CLA	A	822	X	-	-	-
18	CLA	A	823	X	-	-	-
18	CLA	A	824	X	-	-	-
18	CLA	A	825	X	-	-	-
18	CLA	A	826	X	-	-	-
18	CLA	A	827	X	-	-	-
18	CLA	A	828	X	-	-	-
18	CLA	A	829	X	-	-	-
18	CLA	A	830	X	-	-	-
18	CLA	A	831	X	-	-	-
18	CLA	A	832	X	-	-	-
18	CLA	A	833	X	-	-	-
18	CLA	A	834	X	-	-	-
18	CLA	A	835	X	-	-	-
18	CLA	A	836	X	-	-	-
18	CLA	A	837	X	-	-	-
18	CLA	A	838	X	-	-	-
18	CLA	A	839	X	-	-	-
18	CLA	A	840	X	-	-	-
18	CLA	A	841	X	-	-	-
18	CLA	A	842	X	-	-	-
18	CLA	A	843	X	-	-	-
18	CLA	A	845	X	-	-	-
18	CLA	A	854	X	-	-	-
18	CLA	B	802	X	-	-	-
18	CLA	B	803	X	-	-	-
18	CLA	B	804	X	-	-	-
18	CLA	B	805	X	-	-	-
18	CLA	B	806	X	-	-	-
18	CLA	B	807	X	-	-	-
18	CLA	B	808	X	-	-	-
18	CLA	B	809	X	-	-	-
18	CLA	B	810	X	-	-	-
18	CLA	B	811	X	-	-	-
18	CLA	B	812	X	-	-	-
18	CLA	B	813	X	-	-	-
18	CLA	B	814	X	-	-	-
18	CLA	B	815	X	-	-	-
18	CLA	B	816	X	-	-	-
18	CLA	B	817	X	-	-	-
18	CLA	B	818	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
18	CLA	B	819	X	-	-	-
18	CLA	B	820	X	-	-	-
18	CLA	B	821	X	-	-	-
18	CLA	B	822	X	-	-	-
18	CLA	B	823	X	-	-	-
18	CLA	B	824	X	-	-	-
18	CLA	B	825	X	-	-	-
18	CLA	B	826	X	-	-	-
18	CLA	B	827	X	-	-	-
18	CLA	B	828	X	-	-	-
18	CLA	B	829	X	-	-	-
18	CLA	B	830	X	-	-	-
18	CLA	B	831	X	-	-	-
18	CLA	B	832	X	-	-	-
18	CLA	B	833	X	-	-	-
18	CLA	B	834	X	-	-	-
18	CLA	B	835	X	-	-	-
18	CLA	B	836	X	-	-	-
18	CLA	B	837	X	-	-	-
18	CLA	B	838	X	-	-	-
18	CLA	B	839	X	-	-	-
18	CLA	B	840	X	-	-	-
18	CLA	B	841	X	-	-	-
18	CLA	F	301	X	-	-	-
18	CLA	F	303	X	-	-	-
18	CLA	F	304	X	-	-	-
18	CLA	F	305	X	-	-	-
18	CLA	G	201	X	-	-	-
18	CLA	G	203	X	-	-	-
18	CLA	G	204	X	-	-	-
18	CLA	J	101	X	-	-	-
18	CLA	K	201	X	-	-	-
18	CLA	K	203	X	-	-	-
18	CLA	K	204	X	-	-	-
18	CLA	K	206	X	-	-	-
18	CLA	L	302	X	-	-	-
18	CLA	L	303	X	-	-	-
18	CLA	L	304	X	-	-	-
22	SF4	C	101	-	-	X	-
22	SF4	C	102	-	-	X	-
25	CHL	2	601	X	-	-	-
25	CHL	2	606	X	-	-	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
25	CHL	2	607	X	-	-	-
25	CHL	2	608	X	-	-	-
25	CHL	2	616	X	-	-	-
25	CHL	3	608	X	-	-	-
25	CHL	5	606	X	-	-	-
25	CHL	5	607	X	-	-	-
25	CHL	5	608	X	-	-	-
25	CHL	5	615	X	-	-	-
25	CHL	6	601	X	-	-	-
25	CHL	6	607	X	-	-	-
27	XAT	2	620	-	-	X	-
27	XAT	5	620	-	-	X	-

## 2 Entry composition

There are 27 unique types of molecules in this entry. The entry contains 34822 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem I P700 chlorophyll a apoprotein A1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	742	5837	3827	993	998	19	0	0

- Molecule 2 is a protein called Photosystem I P700 chlorophyll a apoprotein A2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	733	5849	3839	996	998	16	0	0

- Molecule 3 is a protein called Photosystem I iron-sulfur center.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	80	595	365	103	116	11	0	0

- Molecule 4 is a protein called Predicted protein PsaD.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	D	141	1104	707	196	198	3	0	0

- Molecule 5 is a protein called PsaE.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
5	E	62	487	309	87	91	0	0

- Molecule 6 is a protein called PSI-F.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	F	159	1226	793	209	221	3	0	0



- Molecule 7 is a protein called Predicted protein PsaG.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
7	G	98	749	483	128	138	0	0

- Molecule 8 is a protein called PsaH photosystem I reaction center subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	H	90	693	445	117	130	1	0	0

- Molecule 9 is a protein called Photosystem I reaction center subunit VIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	I	34	266	181	35	48	2	0	0

- Molecule 10 is a protein called Photosystem I reaction center subunit IX.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	J	41	325	222	48	54	1	0	0

- Molecule 11 is a protein called PsaK.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	K	79	550	346	96	105	3	0	0

- Molecule 12 is a protein called PSI subunit V.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	L	159	1189	781	192	214	2	0	0

- Molecule 13 is a protein called Photosystem I reaction center subunit XII.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
13	M	29	214	141	34	39	0	0

- Molecule 14 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	2	206	1595	1039	267	285	4	0	0

- Molecule 15 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	6	192	1473	961	247	264	1	0	0

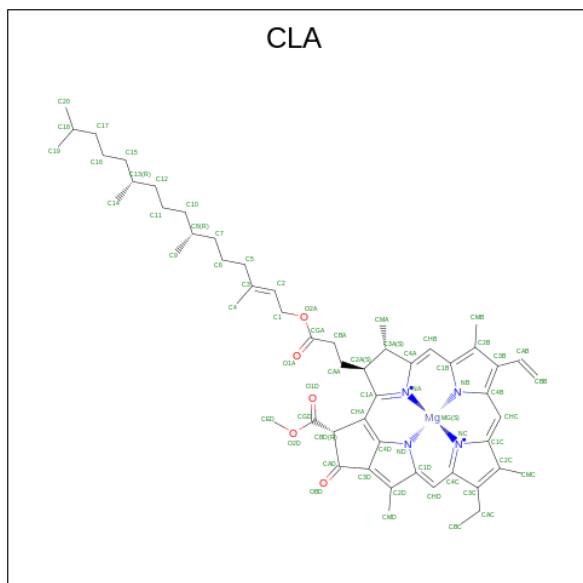
- Molecule 16 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	3	213	1644	1076	265	296	7	0	0

- Molecule 17 is a protein called Chlorophyll a-b binding protein, chloroplastic.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	5	202	1566	1020	258	282	6	0	0

- Molecule 18 is CHLOROPHYLL A (three-letter code: CLA) (formula:  $C_{55}H_{72}MgN_4O_5$ ).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
18	A	1	2421	1977	45	180	219	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
18	A	1	2421	1977	45	180	219	0
18	A	1	2421	1977	45	180	219	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0
18	B	1	2093	1697	40	160	196	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
18	F	1	Total 176	C 138	Mg 4	N 16	O 18	0
18	F	1	Total 176	C 138	Mg 4	N 16	O 18	0
18	F	1	Total 176	C 138	Mg 4	N 16	O 18	0
18	F	1	Total 176	C 138	Mg 4	N 16	O 18	0
18	G	1	Total 139	C 109	Mg 3	N 12	O 15	0
18	G	1	Total 139	C 109	Mg 3	N 12	O 15	0
18	G	1	Total 139	C 109	Mg 3	N 12	O 15	0
18	J	1	Total 42	C 34	Mg 1	N 4	O 3	0
18	K	1	Total 180	C 140	Mg 4	N 16	O 20	0
18	K	1	Total 180	C 140	Mg 4	N 16	O 20	0
18	K	1	Total 180	C 140	Mg 4	N 16	O 20	0
18	K	1	Total 180	C 140	Mg 4	N 16	O 20	0
18	L	1	Total 132	C 104	Mg 3	N 12	O 13	0
18	L	1	Total 132	C 104	Mg 3	N 12	O 13	0
18	L	1	Total 132	C 104	Mg 3	N 12	O 13	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0
18	2	1	Total 410	C 326	Mg 9	N 36	O 39	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
18	2	1	410	326	9	36	39	0
18	2	1	410	326	9	36	39	0
18	2	1	410	326	9	36	39	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	6	1	525	413	12	48	52	0
18	3	1	577	465	13	52	47	0
18	3	1	577	465	13	52	47	0
18	3	1	577	465	13	52	47	0
18	3	1	577	465	13	52	47	0
18	3	1	577	465	13	52	47	0
18	3	1	577	465	13	52	47	0

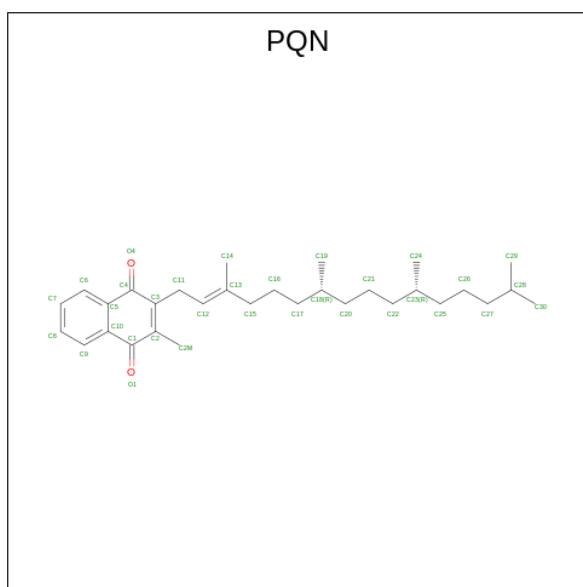
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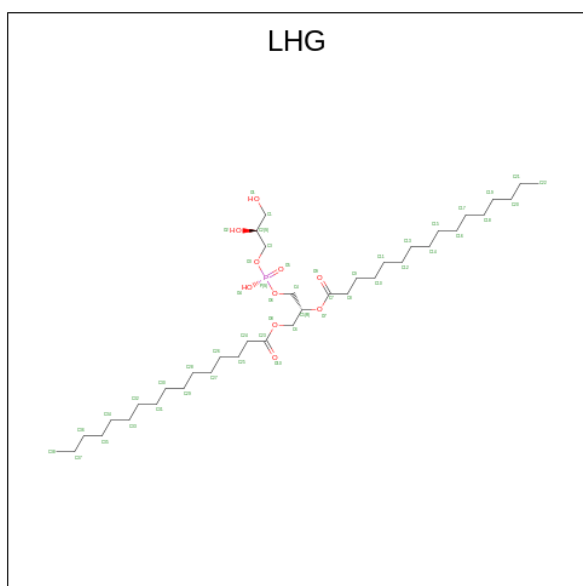
Mol	Chain	Residues	Atoms					AltConf
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	3	1	Total	C	Mg	N	O	0
			577	465	13	52	47	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	
18	5	1	Total	C	Mg	N	O	0
			445	351	10	40	44	

- Molecule 19 is PHYLLOQUINONE (three-letter code: PQN) (formula: C<sub>31</sub>H<sub>46</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			AltConf
19	A	1	Total	C	O	0
			33	31	2	
19	B	1	Total	C	O	0
			33	31	2	

- Molecule 20 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (three-letter code: LHG) (formula:  $C_{38}H_{75}O_{10}P$ ).



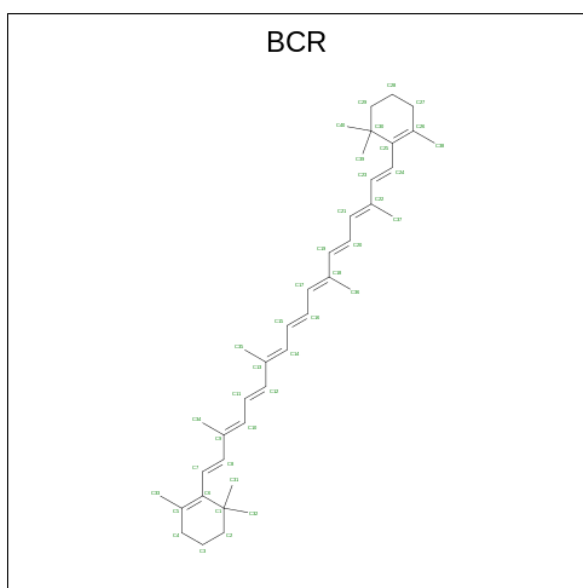
Mol	Chain	Residues	Atoms				AltConf
20	A	1	Total	C	O	P	0
			76	54	20	2	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	O	P	
20	A	1	76	54	20	2	0
20	B	1	23	12	10	1	0
20	2	1	35	24	10	1	0
20	6	1	28	17	10	1	0
20	5	1	37	26	10	1	0

- Molecule 21 is BETA-CAROTENE (three-letter code: BCR) (formula: C<sub>40</sub>H<sub>56</sub>).



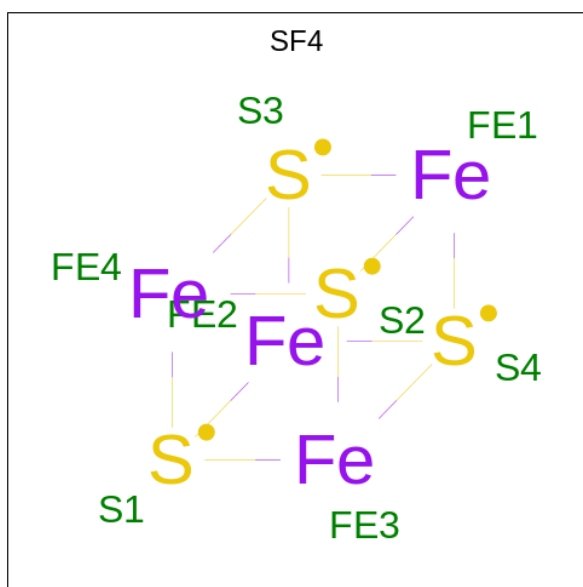
Mol	Chain	Residues	Atoms		AltConf
			Total	C	
21	A	1	240	240	0
21	A	1	240	240	0
21	A	1	240	240	0
21	A	1	240	240	0
21	A	1	240	240	0
21	A	1	240	240	0

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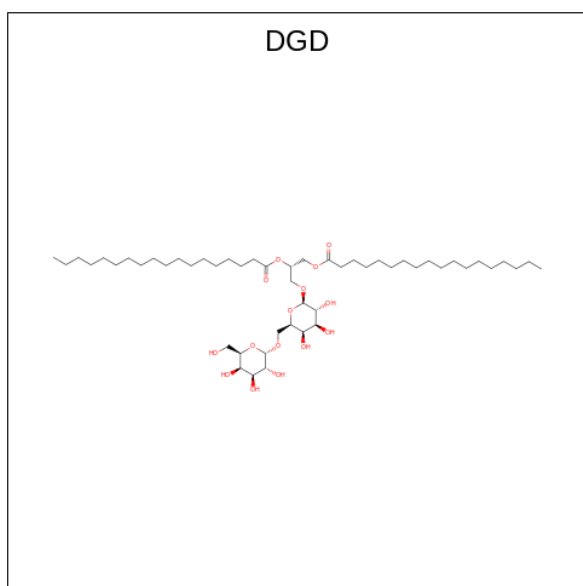
Mol	Chain	Residues	Atoms		AltConf
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	B	1	Total 280	C 280	0
21	F	1	Total 40	C 40	0
21	G	1	Total 40	C 40	0
21	I	1	Total 40	C 40	0
21	J	1	Total 80	C 80	0
21	J	1	Total 80	C 80	0
21	K	1	Total 80	C 80	0
21	K	1	Total 80	C 80	0
21	L	1	Total 80	C 80	0
21	L	1	Total 80	C 80	0
21	2	1	Total 40	C 40	0
21	3	1	Total 80	C 80	0
21	3	1	Total 80	C 80	0
21	5	1	Total 40	C 40	0

- Molecule 22 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).



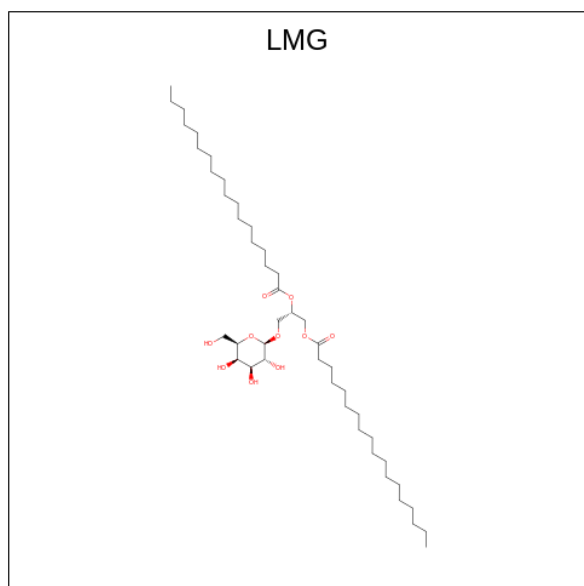
Mol	Chain	Residues	Atoms			AltConf
22	A	1	Total	Fe	S	0
			8	4	4	
22	C	1	Total	Fe	S	0
			16	8	8	
22	C	1	Total	Fe	S	0
			16	8	8	

- Molecule 23 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (three-letter code: DGD) (formula:  $C_{51}H_{96}O_{15}$ ).



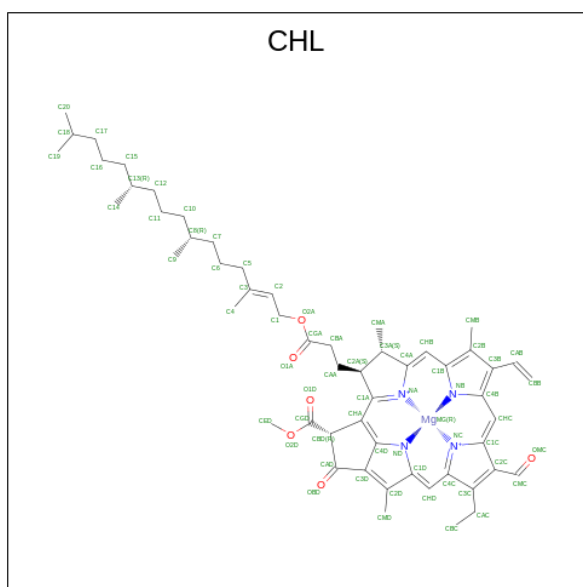
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
23	B	1	66	51	15	0

- Molecule 24 is 1,2-DISTEAROYL-MONOGALACTOSYL-DIGLYCERIDE (three-letter code: LMG) (formula:  $C_{45}H_{86}O_{10}$ ).



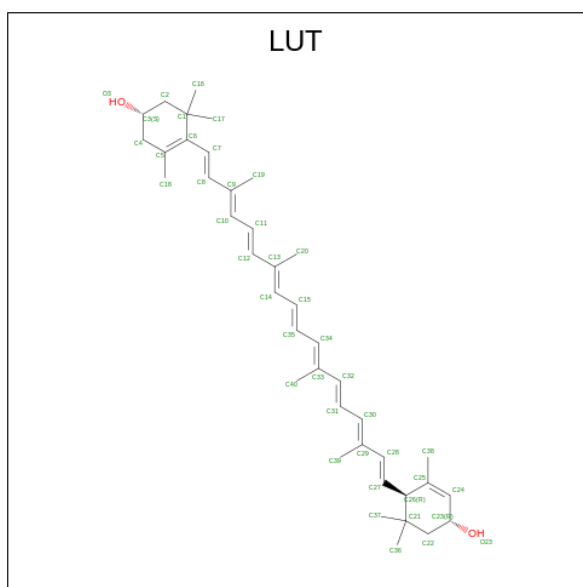
Mol	Chain	Residues	Atoms			AltConf
			Total	C	O	
24	J	1	30	20	10	0
24	2	1	26	14	12	0
24	2	1	26	14	12	0

- Molecule 25 is CHLOROPHYLL B (three-letter code: CHL) (formula:  $C_{55}H_{70}MgN_4O_6$ ).



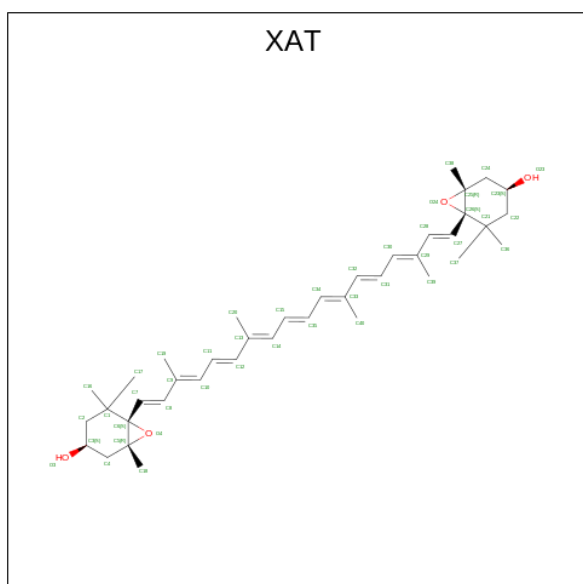
Mol	Chain	Residues	Atoms					AltConf
			Total	C	Mg	N	O	
25	2	1	Total	C	Mg	N	O	0
			221	170	5	20	26	
25	2	1	Total	C	Mg	N	O	0
			221	170	5	20	26	
25	2	1	Total	C	Mg	N	O	0
			221	170	5	20	26	
25	2	1	Total	C	Mg	N	O	0
			221	170	5	20	26	
25	2	1	Total	C	Mg	N	O	0
			221	170	5	20	26	
25	6	1	Total	C	Mg	N	O	0
			86	66	2	8	10	
25	6	1	Total	C	Mg	N	O	0
			86	66	2	8	10	
25	3	1	Total	C	Mg	N	O	0
			40	32	1	4	3	
25	5	1	Total	C	Mg	N	O	0
			178	140	4	16	18	
25	5	1	Total	C	Mg	N	O	0
			178	140	4	16	18	
25	5	1	Total	C	Mg	N	O	0
			178	140	4	16	18	
25	5	1	Total	C	Mg	N	O	0
			178	140	4	16	18	

- Molecule 26 is (3R,3'R,6S)-4,5-DIDEHYDRO-5,6-DIHYDRO-BETA,BETA-CAROTENE-3,3'-DIOL (three-letter code: LUT) (formula: C<sub>40</sub>H<sub>56</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms		AltConf
26	2	1	Total	C O	0
			42	40 2	
26	6	1	Total	C O	0
			42	40 2	
26	3	1	Total	C O	0
			42	40 2	
26	5	1	Total	C O	0
			42	40 2	

- Molecule 27 is (3S,5R,6S,3'S,5'R,6'S)-5,6,5',6'-DIEPOXY-5,6,5',6'-TETRAHYDRO-BETA ,BETA-CAROTENE-3,3'-DIOL (three-letter code: XAT) (formula: C<sub>40</sub>H<sub>56</sub>O<sub>4</sub>).



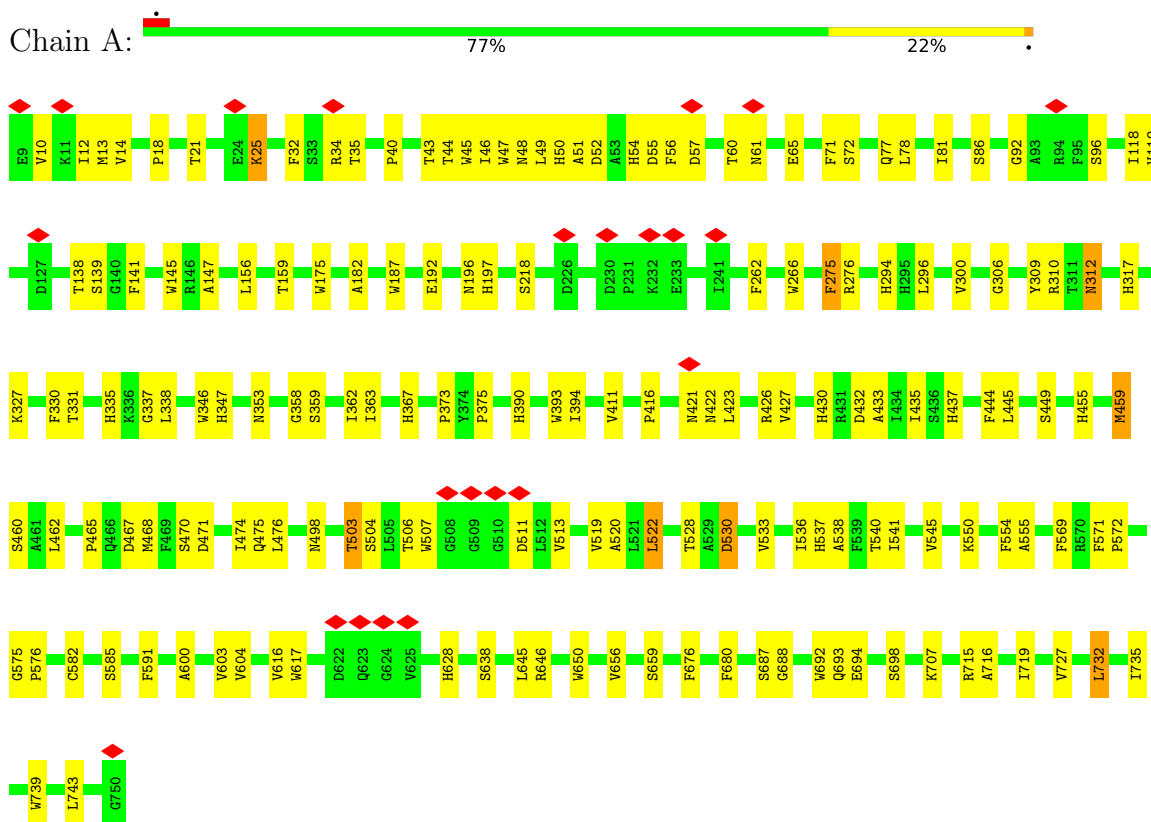


Mol	Chain	Residues	Atoms			AltConf
27	2	1	Total	C	O	0
			44	40	4	
27	6	1	Total	C	O	0
			44	40	4	
27	3	1	Total	C	O	0
			44	40	4	
27	5	1	Total	C	O	0
			44	40	4	

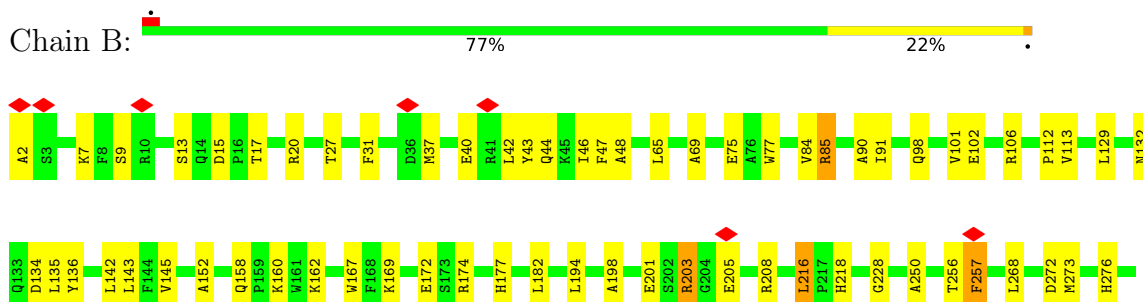
### 3 Residue-property plots [i](#)

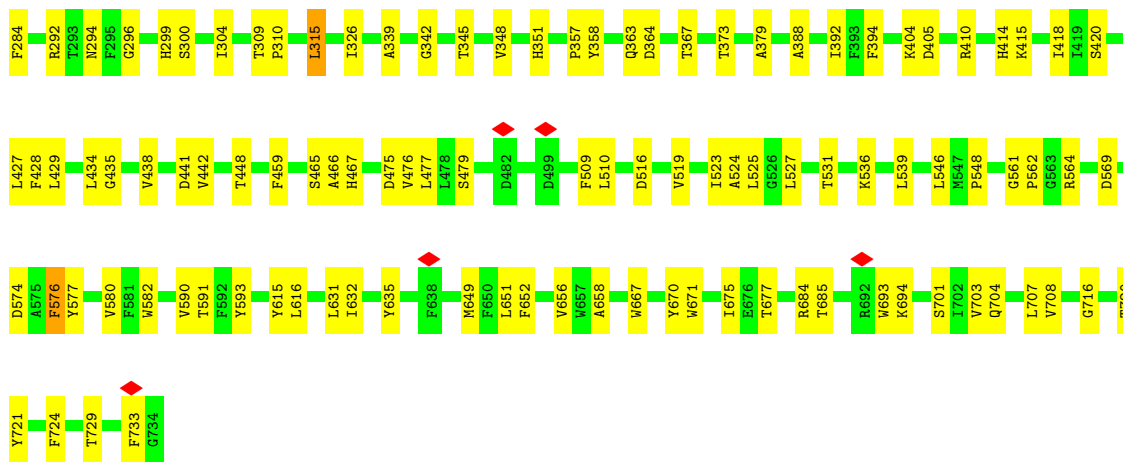
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Photosystem I P700 chlorophyll a apoprotein A1



- Molecule 2: Photosystem I P700 chlorophyll a apoprotein A2

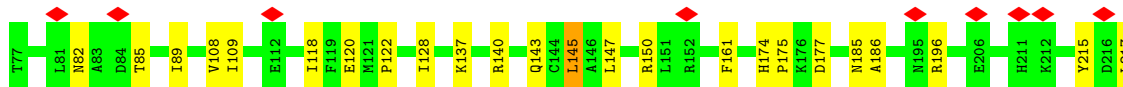
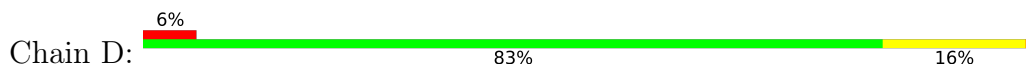




• Molecule 3: Photosystem I iron-sulfur center



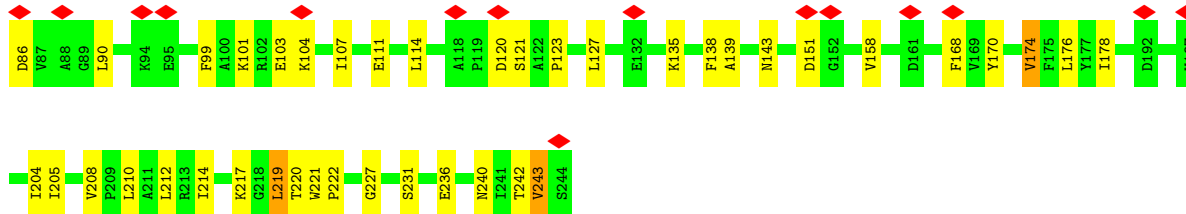
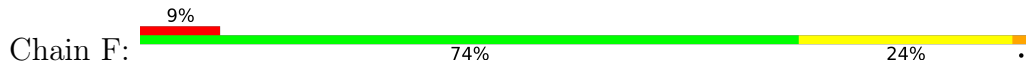
• Molecule 4: Predicted protein PsaD



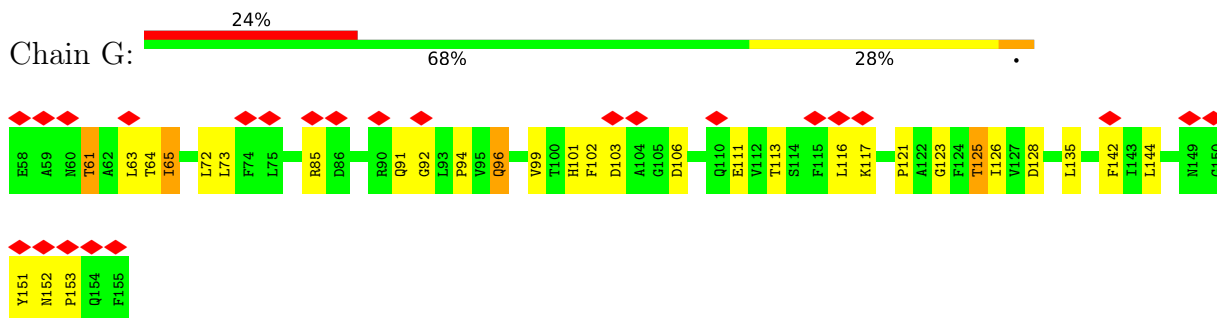
• Molecule 5: PsaE



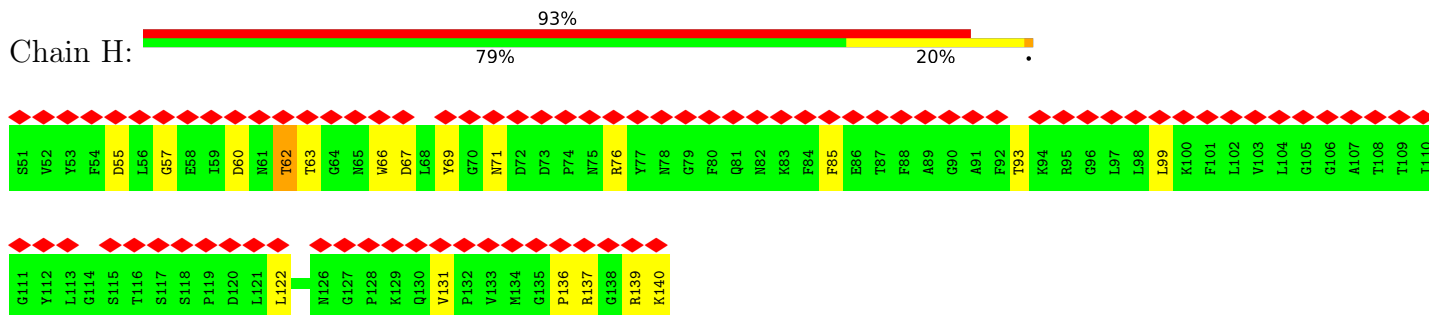
• Molecule 6: PSI-F



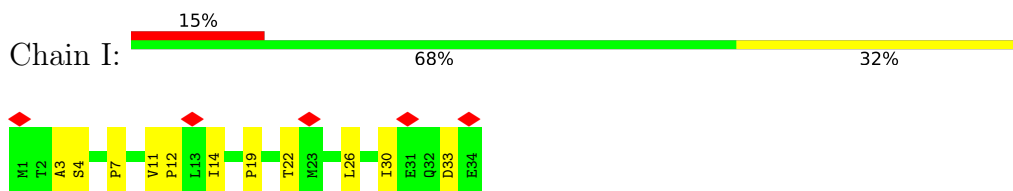
• Molecule 7: Predicted protein PsaG



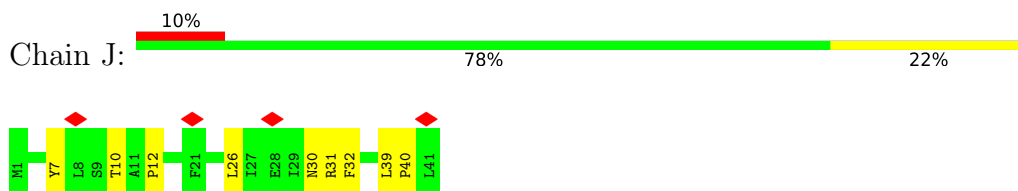
• Molecule 8: PsaH photosystem I reaction center subunit



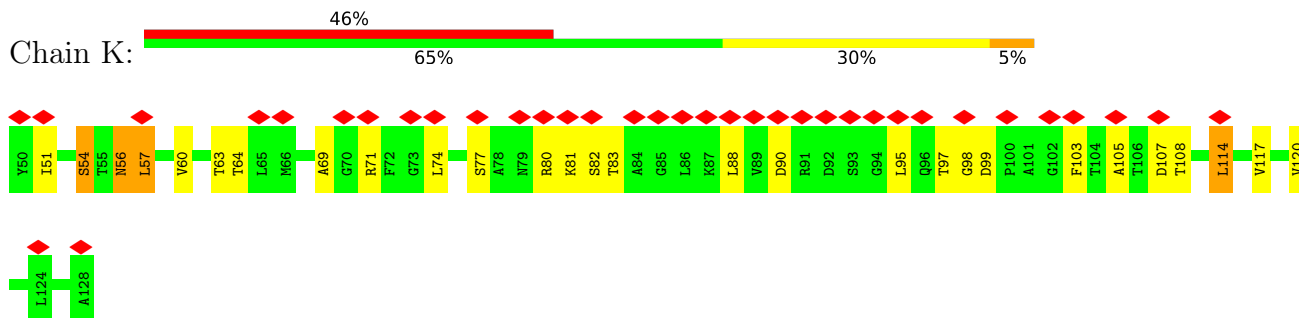
• Molecule 9: Photosystem I reaction center subunit VIII



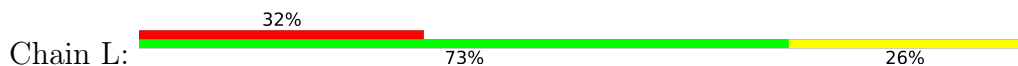
• Molecule 10: Photosystem I reaction center subunit IX

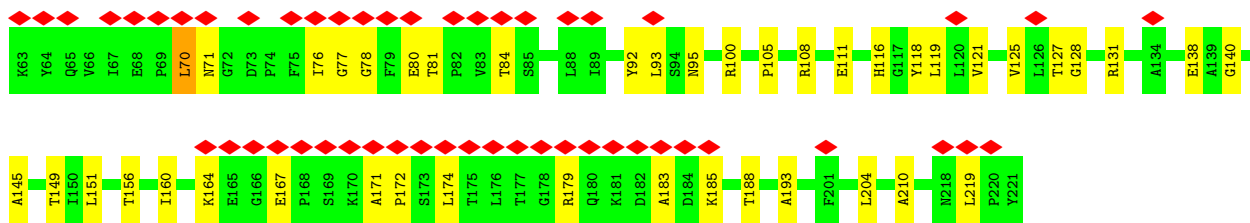


• Molecule 11: PsaK

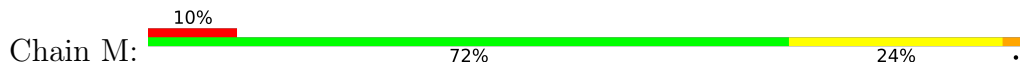


• Molecule 12: PSI subunit V

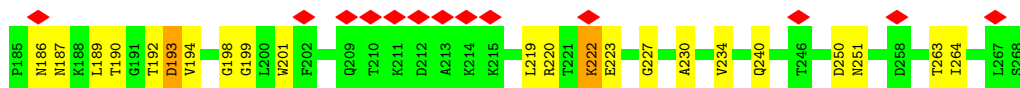
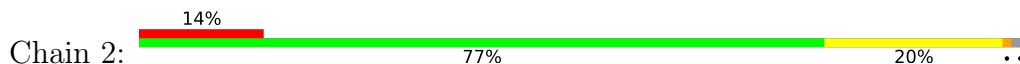




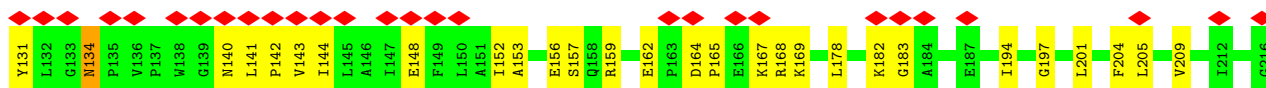
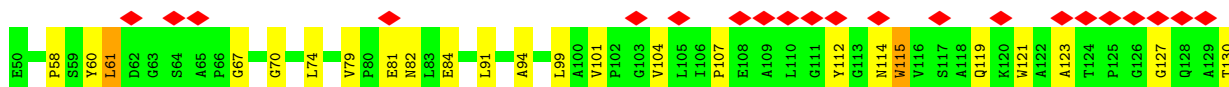
• Molecule 13: Photosystem I reaction center subunit XII



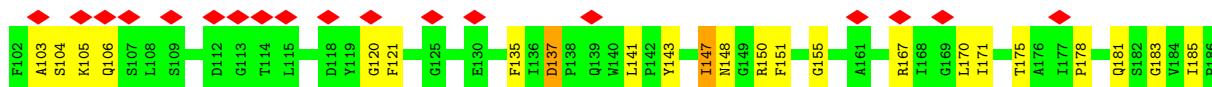
• Molecule 14: Chlorophyll a-b binding protein, chloroplastic

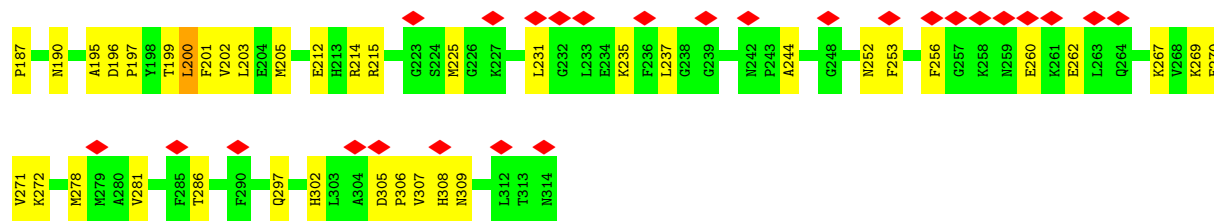


• Molecule 15: Chlorophyll a-b binding protein, chloroplastic

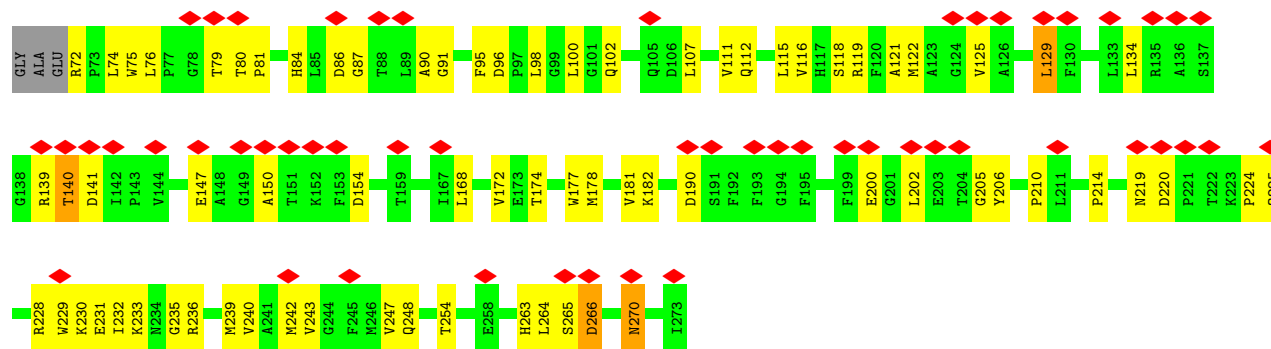


• Molecule 16: Chlorophyll a-b binding protein, chloroplastic





- Molecule 17: Chlorophyll a-b binding protein, chloroplastic



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	70288	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.162	Depositor
Minimum map value	-0.053	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.03	Depositor
Map size ( $\text{\AA}$ )	407.424, 407.424, 407.424	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.061, 1.061, 1.061	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CLA, XAT, LUT, BCR, PQN, LHG, LMG, CHL, SF4, DGD

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.26	0/6032	0.40	0/8227
2	B	0.26	0/6063	0.41	0/8274
3	C	0.27	0/605	0.45	0/821
4	D	0.26	0/1132	0.45	0/1532
5	E	0.27	0/498	0.44	0/677
6	F	0.26	0/1251	0.43	0/1692
7	G	0.25	0/767	0.46	0/1046
8	H	0.25	0/710	0.42	0/961
9	I	0.27	0/273	0.45	0/373
10	J	0.26	0/334	0.39	0/457
11	K	0.26	0/556	0.51	0/752
12	L	0.26	0/1222	0.42	0/1671
13	M	0.24	0/215	0.37	0/290
14	2	0.26	0/1646	0.41	0/2252
15	6	0.26	0/1522	0.40	0/2081
16	3	0.27	0/1695	0.43	0/2302
17	5	0.26	0/1614	0.45	0/2201
All	All	0.26	0/26135	0.42	0/35609

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen



atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5837	0	5725	120	0
2	B	5849	0	5623	133	0
3	C	595	0	576	25	0
4	D	1104	0	1112	15	0
5	E	487	0	480	11	0
6	F	1226	0	1269	27	0
7	G	749	0	729	20	0
8	H	693	0	672	16	0
9	I	266	0	274	7	0
10	J	325	0	341	9	0
11	K	550	0	566	15	0
12	L	1189	0	1200	29	0
13	M	214	0	236	6	0
14	2	1595	0	1561	35	0
15	6	1473	0	1446	43	0
16	3	1644	0	1598	62	0
17	5	1566	0	1531	62	0
18	2	410	0	310	12	0
18	3	577	0	422	21	0
18	5	445	0	318	20	0
18	6	525	0	355	4	0
18	A	2421	0	2229	103	0
18	B	2093	0	1861	77	0
18	F	176	0	128	5	0
18	G	139	0	102	4	0
18	J	42	0	31	1	0
18	K	180	0	126	4	0
18	L	132	0	97	7	0
19	A	33	0	46	1	0
19	B	33	0	46	5	0
20	2	35	0	40	3	0
20	5	37	0	44	5	0
20	6	28	0	26	1	0
20	A	76	0	98	3	0
20	B	23	0	16	1	0
21	2	40	0	56	5	0
21	3	80	0	112	8	0
21	5	40	0	56	2	0
21	A	240	0	336	14	0
21	B	280	0	392	16	0
21	F	40	0	56	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	G	40	0	56	3	0
21	I	40	0	56	2	0
21	J	80	0	110	6	0
21	K	80	0	112	5	0
21	L	80	0	112	2	0
22	A	8	0	0	0	0
22	C	16	0	0	11	0
23	B	66	0	96	4	0
24	2	26	0	22	0	0
24	J	30	0	30	1	0
25	2	221	0	143	16	0
25	3	40	0	23	1	0
25	5	178	0	116	18	0
25	6	86	0	52	8	0
26	2	42	0	56	2	0
26	3	42	0	55	1	0
26	5	42	0	56	2	0
26	6	42	0	56	3	0
27	2	44	0	56	24	0
27	3	44	0	56	17	0
27	5	44	0	56	31	0
27	6	44	0	56	13	0
All	All	34822	0	33617	814	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 12.

All (814) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2:121:ILE:HD11	27:2:620:XAT:C17	1.25	1.61
3:C:21:CYS:SG	22:C:101:SF4:FE2	1.20	1.34
3:C:14:CYS:SG	22:C:102:SF4:S4	2.29	1.29
14:2:121:ILE:CD1	27:2:620:XAT:H173	1.68	1.22
3:C:21:CYS:SG	22:C:101:SF4:S1	2.38	1.20
14:2:121:ILE:CD1	27:2:620:XAT:C17	2.19	1.19
3:C:14:CYS:SG	22:C:102:SF4:FE3	1.33	1.18
3:C:54:CYS:SG	22:C:101:SF4:S4	2.43	1.16
25:2:606:CHL:HBB1	27:2:620:XAT:H182	1.26	1.13
3:C:14:CYS:SG	22:C:102:SF4:S2	2.47	1.12
3:C:54:CYS:SG	22:C:101:SF4:FE3	1.42	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3:121:PHE:HE2	27:3:619:XAT:H383	1.14	1.10
14:2:121:ILE:HD11	27:2:620:XAT:H172	1.41	1.00
14:2:121:ILE:HD11	27:2:620:XAT:H173	1.02	0.98
25:2:606:CHL:CBB	27:2:620:XAT:C18	2.41	0.98
25:2:606:CHL:HBB1	27:2:620:XAT:C18	1.96	0.95
25:5:607:CHL:C3B	27:5:620:XAT:H163	1.96	0.95
14:2:121:ILE:HD11	27:2:620:XAT:H171	1.48	0.93
14:2:121:ILE:CG1	27:2:620:XAT:H173	1.97	0.92
16:3:121:PHE:CE2	27:3:619:XAT:H383	2.05	0.92
25:2:606:CHL:CBB	27:2:620:XAT:H182	1.99	0.89
3:C:58:CYS:SG	22:C:102:SF4:S2	2.73	0.87
18:2:602:CLA:O1A	27:2:620:XAT:H241	1.76	0.85
3:C:21:CYS:HG	22:C:101:SF4:FE2	0.83	0.85
25:2:607:CHL:HMB3	27:2:620:XAT:H161	1.61	0.82
25:5:607:CHL:HMB3	27:5:620:XAT:H171	1.61	0.82
18:B:821:CLA:HMD2	21:B:843:BCR:HC7	1.61	0.81
25:2:607:CHL:HMB3	27:2:620:XAT:C16	2.09	0.81
25:5:607:CHL:HMB3	27:5:620:XAT:C17	2.11	0.81
1:A:416:PRO:HG3	4:D:120:GLU:HB2	1.63	0.80
18:2:602:CLA:HMC2	27:2:620:XAT:C31	2.13	0.79
18:B:823:CLA:HAB	18:B:830:CLA:HMD2	1.64	0.79
12:L:70:LEU:HD13	12:L:76:ILE:HB	1.65	0.78
19:A:844:PQN:H172	21:B:801:BCR:H382	1.66	0.78
16:3:121:PHE:HE2	27:3:619:XAT:C38	1.96	0.77
17:5:118:SER:HB3	17:5:235:GLY:HA3	1.66	0.77
25:2:616:CHL:HHC	25:2:616:CHL:HBB1	1.68	0.76
1:A:196:ASN:ND2	1:A:306:GLY:O	2.19	0.75
17:5:243:VAL:HG21	27:5:620:XAT:H401	1.67	0.75
21:A:856:BCR:H312	10:J:31:ARG:HD3	1.68	0.75
17:5:121:ALA:HB2	27:5:620:XAT:H202	1.67	0.74
25:5:607:CHL:HAB	27:5:620:XAT:H161	1.69	0.74
18:5:602:CLA:HMC2	27:5:620:XAT:C31	2.17	0.74
10:J:40:PRO:HG2	21:J:103:BCR:H382	1.69	0.73
2:B:292:ARG:NH1	7:G:92:GLY:O	2.21	0.73
15:6:119:GLN:NE2	27:6:619:XAT:H21	2.04	0.72
9:I:11:VAL:HA	9:I:14:ILE:HG22	1.70	0.72
6:F:158:VAL:HG12	6:F:168:PHE:HB2	1.72	0.72
17:5:243:VAL:HG21	27:5:620:XAT:C40	2.20	0.71
14:2:240:GLN:HE21	14:2:251:ASN:HD22	1.37	0.71
17:5:125:VAL:HG13	17:5:129:LEU:HD23	1.72	0.71
18:A:810:CLA:HAB	18:B:833:CLA:HMD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2:606:CHL:HAA1	21:2:621:BCR:H402	1.72	0.70
25:5:607:CHL:CAB	27:5:620:XAT:C16	2.68	0.70
14:2:111:CYS:HB2	14:2:227:GLY:HA3	1.72	0.70
25:5:607:CHL:C3B	27:5:620:XAT:C16	2.71	0.69
25:2:607:CHL:HHC	25:2:607:CHL:HBB1	1.74	0.69
17:5:74:LEU:HD12	17:5:79:THR:HB	1.73	0.69
1:A:732:LEU:HD12	18:A:842:CLA:HMA1	1.74	0.69
14:2:219:LEU:HA	14:2:222:LYS:HD2	1.75	0.68
18:B:819:CLA:HAA2	18:B:824:CLA:HBB1	1.75	0.68
15:6:178:LEU:HD12	26:6:617:LUT:H222	1.77	0.67
3:C:21:CYS:SG	22:C:101:SF4:S3	2.93	0.67
17:5:95:PHE:CE2	27:5:620:XAT:H383	2.29	0.67
18:5:602:CLA:HMC2	27:5:620:XAT:C32	2.24	0.67
2:B:475:ASP:HA	2:B:479:SER:HB2	1.77	0.67
20:2:622:LHG:HC42	21:3:620:BCR:HC32	1.77	0.66
16:3:231:LEU:HG	21:3:620:BCR:H323	1.77	0.66
3:C:54:CYS:SG	22:C:101:SF4:S1	2.94	0.66
17:5:243:VAL:CG2	27:5:620:XAT:H401	2.24	0.66
6:F:86:ASP:N	6:F:90:LEU:O	2.29	0.66
25:5:608:CHL:HHC	25:5:608:CHL:HBB1	1.77	0.66
25:2:606:CHL:CBB	27:2:620:XAT:H181	2.25	0.65
16:3:167:ARG:HH12	16:3:297:GLN:HE22	1.44	0.65
25:2:606:CHL:HBB2	27:2:620:XAT:C18	2.25	0.65
15:6:234:THR:HG23	15:6:236:ALA:H	1.61	0.65
16:3:212:GLU:OE2	16:3:215:ARG:NH1	2.29	0.65
17:5:264:LEU:HD21	18:5:614:CLA:HMC3	1.78	0.65
2:B:42:LEU:O	2:B:46:ILE:HG12	1.97	0.65
18:A:823:CLA:HMD2	21:K:202:BCR:H24C	1.79	0.65
17:5:134:LEU:HB2	17:5:139:ARG:HB3	1.78	0.64
3:C:58:CYS:SG	3:C:64:SER:OG	2.54	0.64
18:G:201:CLA:HAC2	15:6:123:ALA:HB2	1.78	0.64
15:6:201:LEU:HD22	27:6:619:XAT:C35	2.27	0.64
1:A:739:TRP:NE1	18:A:829:CLA:O1A	2.28	0.64
2:B:707:LEU:HD23	23:B:850:DGD:HA21	1.78	0.64
2:B:65:LEU:HD11	21:B:845:BCR:H271	1.78	0.64
11:K:69:ALA:O	11:K:80:ARG:NH2	2.32	0.63
1:A:118:ILE:HG23	1:A:119:VAL:HG22	1.80	0.63
15:6:156:GLU:OE1	15:6:159:ARG:NH2	2.30	0.63
14:2:129:LYS:NZ	14:2:250:ASP:OD1	2.29	0.63
15:6:162:GLU:O	15:6:168:ARG:NH2	2.32	0.63
12:L:105:PRO:HA	12:L:108:ARG:HD3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2:622:LHG:HC82	21:3:620:BCR:HC42	1.80	0.63
18:A:843:CLA:H172	18:L:303:CLA:HMC3	1.80	0.62
2:B:721:TYR:HB2	18:B:802:CLA:HED2	1.81	0.62
18:B:805:CLA:H93	18:B:813:CLA:H2	1.80	0.62
15:6:130:THR:HG22	15:6:131:TYR:H	1.65	0.62
25:6:607:CHL:C2B	27:6:619:XAT:H171	2.28	0.62
6:F:217:LYS:HA	17:5:98:LEU:HD22	1.81	0.62
1:A:57:ASP:OD2	1:A:347:HIS:NE2	2.30	0.62
12:L:111:GLU:HG3	18:L:302:CLA:HMA3	1.82	0.61
16:3:150:ARG:NH1	16:3:270:GLU:OE2	2.33	0.61
17:5:95:PHE:HE2	27:5:620:XAT:H383	1.65	0.61
16:3:281:VAL:HG21	27:3:619:XAT:H12	1.83	0.61
17:5:206:TYR:HB3	18:5:610:CLA:HED2	1.83	0.61
2:B:272:ASP:HB3	18:B:817:CLA:HMA1	1.83	0.61
18:A:843:CLA:H143	21:L:301:BCR:H17C	1.81	0.61
12:L:70:LEU:HD12	12:L:70:LEU:H	1.66	0.61
12:L:92:TYR:OH	18:L:303:CLA:O1A	2.19	0.61
2:B:201:GLU:OE1	2:B:208:ARG:NH1	2.33	0.60
2:B:694:LYS:NZ	18:B:839:CLA:O2D	2.29	0.60
17:5:242:MET:HE2	27:5:620:XAT:H10	1.83	0.60
18:A:834:CLA:HED3	18:A:843:CLA:H12	1.83	0.60
20:B:851:LHG:HC11	15:6:82:ASN:HD22	1.65	0.60
5:E:84:ARG:O	6:F:242:THR:OG1	2.19	0.60
16:3:281:VAL:CG1	27:3:619:XAT:H14	2.31	0.60
18:A:822:CLA:HMB2	18:A:826:CLA:HMA3	1.83	0.60
2:B:342:GLY:HA2	2:B:345:THR:HG22	1.83	0.60
2:B:729:THR:O	2:B:733:PHE:N	2.32	0.60
4:D:89:ILE:HB	4:D:128:ILE:HG13	1.84	0.60
15:6:84:GLU:OE2	15:6:169:LYS:NZ	2.34	0.60
15:6:152:ILE:HG21	18:6:609:CLA:HMC3	1.82	0.60
1:A:327:LYS:H	18:A:845:CLA:HBC2	1.67	0.60
18:B:841:CLA:HMC3	18:6:603:CLA:H12	1.84	0.60
6:F:120:ASP:OD1	6:F:120:ASP:N	2.35	0.60
9:I:14:ILE:HD11	21:I:101:BCR:H333	1.84	0.60
2:B:268:LEU:HB2	2:B:273:MET:HE3	1.84	0.59
1:A:433:ALA:O	1:A:437:HIS:HD2	1.84	0.59
18:B:806:CLA:H151	18:B:828:CLA:HBB2	1.83	0.59
2:B:716:GLY:O	2:B:720:THR:HG22	2.03	0.59
18:5:611:CLA:HBC3	20:5:622:LHG:HC62	1.83	0.59
2:B:43:TYR:OH	2:B:169:LYS:NZ	2.35	0.58
2:B:77:TRP:HA	2:B:84:VAL:HG11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:167:TRP:CZ2	18:B:813:CLA:HAC2	2.38	0.58
2:B:546:LEU:O	2:B:564:ARG:NH2	2.35	0.58
14:2:190:THR:HG23	14:2:199:GLY:HA2	1.85	0.58
15:6:201:LEU:HD22	27:6:619:XAT:C34	2.32	0.58
4:D:120:GLU:O	4:D:150:ARG:NH1	2.36	0.58
2:B:733:PHE:HE2	8:H:136:PRO:HD2	1.67	0.58
25:5:607:CHL:C2B	27:5:620:XAT:H163	2.33	0.58
1:A:44:THR:O	1:A:48:ASN:ND2	2.36	0.58
2:B:415:LYS:HB2	2:B:539:LEU:HD13	1.84	0.58
4:D:185:ASN:ND2	4:D:186:ALA:O	2.36	0.58
16:3:178:PRO:HG2	16:3:181:GLN:HB2	1.84	0.58
1:A:14:VAL:HG21	18:A:811:CLA:HED2	1.84	0.58
2:B:85:ARG:HD3	8:H:139:ARG:HD3	1.85	0.58
2:B:684:ARG:NE	12:L:77:GLY:O	2.36	0.58
14:2:189:LEU:HD22	14:2:199:GLY:HA3	1.85	0.58
17:5:119:ARG:NH1	25:5:608:CHL:OBD	2.30	0.58
1:A:330:PHE:O	1:A:426:ARG:NH1	2.37	0.58
16:3:195:ALA:HB3	16:3:200:LEU:HD13	1.85	0.58
16:3:199:THR:HA	16:3:202:VAL:HG12	1.86	0.58
18:A:814:CLA:HMB1	18:A:814:CLA:HBB1	1.84	0.57
2:B:459:PHE:HD1	18:F:304:CLA:HMC2	1.69	0.57
18:2:604:CLA:HBB1	18:2:604:CLA:HMB1	1.86	0.57
25:6:607:CHL:C2B	27:6:619:XAT:C17	2.82	0.57
1:A:676:PHE:CD1	21:A:852:BCR:H363	2.38	0.57
19:B:842:PQN:H293	23:B:850:DGD:HAE2	1.85	0.57
25:5:607:CHL:HAB	27:5:620:XAT:C16	2.31	0.57
1:A:331:THR:OG1	20:A:847:LHG:O2	2.19	0.57
1:A:698:SER:O	2:B:420:SER:OG	2.22	0.57
2:B:435:GLY:HA3	18:B:833:CLA:HAB	1.87	0.57
1:A:353:ASN:ND2	18:A:806:CLA:OBD	2.31	0.57
1:A:471:ASP:O	1:A:475:GLN:NE2	2.38	0.57
4:D:196:ARG:NH2	4:D:217:LEU:O	2.38	0.57
16:3:281:VAL:HG13	27:3:619:XAT:H14	1.87	0.57
1:A:118:ILE:HG12	1:A:119:VAL:HG13	1.86	0.57
2:B:142:LEU:HA	2:B:145:VAL:HG12	1.86	0.57
6:F:139:ALA:O	6:F:143:ASN:ND2	2.38	0.57
18:A:803:CLA:HMB1	18:A:803:CLA:HBB1	1.86	0.57
2:B:15:ASP:HB3	2:B:20:ARG:HB2	1.86	0.57
4:D:174:HIS:HB3	4:D:175:PRO:HD3	1.86	0.57
16:3:185:ILE:HG22	16:3:187:PRO:HD2	1.87	0.57
18:A:809:CLA:HMC3	18:A:810:CLA:HMD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:71:ARG:HH12	11:K:99:ASP:HB2	1.69	0.57
16:3:148:ASN:ND2	18:3:609:CLA:OBD	2.37	0.57
1:A:460:SER:HG	2:B:635:TYR:HD2	1.53	0.57
1:A:503:THR:HG23	1:A:507:TRP:HE1	1.69	0.57
1:A:687:SER:OG	1:A:688:GLY:N	2.38	0.57
18:A:854:CLA:HAB	2:B:582:TRP:CH2	2.40	0.57
1:A:12:ILE:HD12	18:A:811:CLA:HAA2	1.87	0.56
21:J:103:BCR:H311	21:J:103:BCR:H342	1.87	0.56
15:6:74:LEU:HD12	27:6:619:XAT:H221	1.86	0.56
17:5:112:GLN:HE22	17:5:205:GLY:H	1.52	0.56
1:A:687:SER:OG	1:A:692:TRP:NE1	2.36	0.56
18:A:854:CLA:H42	2:B:438:VAL:HG22	1.87	0.56
1:A:576:PRO:HD2	3:C:52:LYS:HG3	1.86	0.56
6:F:208:VAL:HG21	24:J:104:LMG:H111	1.87	0.56
18:3:604:CLA:HMB3	27:3:619:XAT:H162	1.88	0.56
14:2:193:ASP:OD1	14:2:193:ASP:N	2.38	0.56
1:A:522:LEU:HD11	1:A:616:VAL:HA	1.88	0.56
17:5:210:PRO:HA	17:5:214:PRO:HA	1.87	0.56
2:B:631:LEU:HD11	2:B:724:PHE:HA	1.88	0.55
18:B:819:CLA:HMB2	18:B:824:CLA:HMA3	1.88	0.55
1:A:72:SER:HB2	18:A:812:CLA:HMD3	1.88	0.55
7:G:151:TYR:HE2	18:G:201:CLA:HED2	1.70	0.55
13:M:14:VAL:O	13:M:18:ILE:HG12	2.05	0.55
16:3:286:THR:HG21	18:3:613:CLA:HAC2	1.88	0.55
1:A:600:ALA:O	1:A:604:VAL:HG23	2.06	0.55
1:A:367:HIS:ND1	18:A:819:CLA:OBD	2.39	0.55
16:3:121:PHE:CE2	27:3:619:XAT:C38	2.80	0.55
21:A:848:BCR:H383	21:K:202:BCR:HC8	1.87	0.55
2:B:351:HIS:ND1	18:B:817:CLA:OBD	2.39	0.55
18:B:803:CLA:H143	21:B:848:BCR:H362	1.89	0.55
15:6:201:LEU:HD22	27:6:619:XAT:C15	2.36	0.55
8:H:67:ASP:HB2	12:L:172:PRO:HB2	1.88	0.55
15:6:58:PRO:HD2	15:6:61:LEU:HB2	1.89	0.55
17:5:266:ASP:O	17:5:270:ASN:ND2	2.40	0.55
2:B:693:TRP:HE3	18:B:839:CLA:HMD3	1.72	0.54
1:A:617:TRP:O	1:A:628:HIS:ND1	2.31	0.54
18:B:815:CLA:HBB1	21:B:843:BCR:H382	1.90	0.54
11:K:81:LYS:NZ	11:K:82:SER:O	2.39	0.54
17:5:100:LEU:CD2	27:5:620:XAT:H373	2.37	0.54
1:A:10:VAL:HG13	18:A:813:CLA:HED3	1.89	0.54
1:A:359:SER:O	1:A:363:ILE:HG12	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:126:SER:OG	5:E:128:ASP:OD1	2.20	0.54
14:2:192:THR:OG1	14:2:193:ASP:OD1	2.24	0.54
3:C:60:THR:HG22	3:C:61:ASP:H	1.72	0.54
11:K:81:LYS:H	11:K:90:ASP:HB3	1.73	0.54
15:6:101:VAL:HG21	26:6:617:LUT:H12	1.90	0.54
17:5:121:ALA:HB2	27:5:620:XAT:C20	2.36	0.54
1:A:192:GLU:HG3	1:A:309:TYR:HB3	1.89	0.54
11:K:105:ALA:HA	18:K:201:CLA:HBA2	1.90	0.54
16:3:137:ASP:N	16:3:137:ASP:OD1	2.39	0.54
1:A:576:PRO:HD3	2:B:561:GLY:HA2	1.90	0.54
18:A:816:CLA:HBB1	18:A:816:CLA:HMB1	1.89	0.54
4:D:140:ARG:HB2	4:D:143:GLN:HG3	1.90	0.54
17:5:230:LYS:HD3	18:5:612:CLA:HBA1	1.88	0.54
25:5:607:CHL:CMB	27:5:620:XAT:H171	2.37	0.54
14:2:167:ARG:HA	18:5:601:CLA:HED1	1.91	0.53
16:3:231:LEU:HD22	16:3:231:LEU:H	1.73	0.53
21:J:103:BCR:H371	21:J:103:BCR:H383	1.90	0.53
1:A:310:ARG:N	1:A:317:HIS:O	2.40	0.53
2:B:527:LEU:O	2:B:531:THR:HG23	2.09	0.53
6:F:107:ILE:O	6:F:111:GLU:HG2	2.08	0.53
16:3:103:ALA:O	16:3:104:SER:OG	2.25	0.53
2:B:364:ASP:OD1	8:H:139:ARG:NH2	2.32	0.53
8:H:76:ARG:HG3	18:L:302:CLA:HMD3	1.91	0.53
15:6:182:LYS:HG3	15:6:183:GLY:H	1.73	0.53
1:A:476:LEU:HB2	1:A:528:THR:HG23	1.91	0.53
2:B:174:ARG:HB2	18:B:813:CLA:HBC3	1.89	0.53
18:B:832:CLA:HAB	18:B:833:CLA:HMB2	1.90	0.53
7:G:85:ARG:NH2	7:G:123:GLY:O	2.38	0.53
2:B:448:THR:OG1	2:B:448:THR:O	2.24	0.53
6:F:101:LYS:HA	6:F:104:LYS:HG2	1.89	0.53
12:L:185:LYS:O	12:L:188:THR:OG1	2.27	0.53
16:3:200:LEU:HD21	18:3:606:CLA:HMD3	1.91	0.53
1:A:138:THR:HG22	18:A:809:CLA:HMD1	1.91	0.52
1:A:363:ILE:HD13	18:A:827:CLA:HED3	1.91	0.52
3:C:24:ASP:OD1	3:C:44:ARG:NH2	2.41	0.52
16:3:306:PRO:HG3	18:3:614:CLA:HMB3	1.91	0.52
17:5:122:MET:HB3	26:5:619:LUT:H34	1.91	0.52
18:A:805:CLA:HMB1	18:A:805:CLA:HBB1	1.91	0.52
2:B:40:GLU:O	2:B:44:GLN:NE2	2.42	0.52
2:B:405:ASP:OD1	2:B:410:ARG:NH2	2.42	0.52
18:B:825:CLA:HMA1	21:B:847:BCR:H14C	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:60:VAL:O	11:K:64:THR:HG23	2.09	0.52
2:B:294:ASN:HB2	7:G:111:GLU:HA	1.92	0.52
14:2:193:ASP:OD2	14:2:220:ARG:NH2	2.41	0.52
2:B:143:LEU:HD23	13:M:15:SER:HB2	1.90	0.52
16:3:272:LYS:HD3	18:3:611:CLA:HMA3	1.91	0.52
25:5:607:CHL:HMB3	27:5:620:XAT:H172	1.88	0.52
4:D:108:VAL:HA	4:D:137:LYS:HA	1.90	0.52
5:E:83:ARG:HB3	5:E:86:SER:HB2	1.92	0.52
16:3:281:VAL:HG11	27:3:619:XAT:C14	2.40	0.52
2:B:363:GLN:O	8:H:137:ARG:NH2	2.43	0.52
16:3:196:ASP:OD1	16:3:197:PRO:HD2	2.10	0.52
18:5:609:CLA:HBB1	18:5:609:CLA:HMB1	1.91	0.52
14:2:263:THR:OG1	14:2:264:ILE:N	2.43	0.52
1:A:393:TRP:HB3	18:A:829:CLA:HMC3	1.92	0.52
1:A:541:ILE:O	1:A:545:VAL:HG23	2.10	0.52
2:B:310:PRO:HD2	2:B:315:LEU:HD11	1.92	0.52
2:B:339:ALA:HB2	21:B:847:BCR:H372	1.91	0.52
18:A:841:CLA:HBB1	18:F:301:CLA:HMD1	1.92	0.52
18:A:802:CLA:CGA	18:A:802:CLA:H3A	2.40	0.52
18:B:834:CLA:HBA2	18:B:835:CLA:HMB3	1.91	0.52
25:5:607:CHL:CMB	27:5:620:XAT:C17	2.86	0.52
1:A:18:PRO:HG3	1:A:182:ALA:HB3	1.92	0.51
1:A:52:ASP:OD2	20:A:846:LHG:O2	2.25	0.51
18:A:832:CLA:HMA2	12:L:81:THR:HG21	1.92	0.51
14:2:69:PHE:HD2	14:2:72:SER:HB2	1.75	0.51
14:2:77:TRP:NE1	14:2:89:ASP:OD2	2.41	0.51
2:B:284:PHE:HE1	18:B:819:CLA:HAB	1.75	0.51
3:C:32:ASP:HA	3:C:37:SER:HA	1.92	0.51
18:5:604:CLA:HMB1	18:5:604:CLA:HBB1	1.91	0.51
18:A:809:CLA:HBB1	18:A:809:CLA:HMB1	1.92	0.51
9:I:19:PRO:HA	9:I:22:THR:HG22	1.92	0.51
18:B:833:CLA:O1A	10:J:30:ASN:ND2	2.36	0.51
18:K:203:CLA:HED2	18:K:203:CLA:H2A	1.93	0.51
1:A:60:THR:OG1	1:A:61:ASN:N	2.43	0.51
6:F:212:LEU:HB3	18:F:305:CLA:HMD1	1.93	0.51
9:I:7:PRO:O	9:I:11:VAL:HG13	2.11	0.51
15:6:94:ALA:HB1	15:6:197:GLY:HA3	1.91	0.51
2:B:418:ILE:HG23	18:B:838:CLA:HBB2	1.92	0.51
18:B:825:CLA:HAA2	18:B:826:CLA:OBD	2.10	0.51
17:5:233:LYS:HD3	20:5:622:LHG:HC42	1.91	0.51
1:A:445:LEU:O	1:A:449:SER:OG	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:51:ILE:O	11:K:56:ASN:ND2	2.43	0.51
2:B:69:ALA:HB2	2:B:135:LEU:HB2	1.93	0.51
10:J:7:TYR:O	10:J:10:THR:OG1	2.18	0.51
18:A:808:CLA:HMB3	18:A:809:CLA:H3A	1.93	0.51
5:E:80:LYS:HB3	5:E:132:ALA:HB3	1.92	0.51
20:2:622:LHG:HC91	20:2:622:LHG:H281	1.93	0.51
16:3:269:LYS:HD3	18:3:612:CLA:HAA2	1.92	0.51
1:A:54:HIS:CD2	18:A:806:CLA:HBB2	2.46	0.50
21:L:305:BCR:H403	21:L:305:BCR:H23C	1.92	0.50
2:B:136:TYR:CZ	13:M:8:GLN:HB3	2.46	0.50
18:B:836:CLA:HBB1	18:B:836:CLA:HMB1	1.93	0.50
21:2:621:BCR:HC32	20:5:622:LHG:HC81	1.92	0.50
12:L:118:TYR:HD1	12:L:210:ALA:HB2	1.76	0.50
15:6:239:ILE:HG22	15:6:240:ILE:HG12	1.92	0.50
15:6:91:LEU:HD12	15:6:169:LYS:HB2	1.93	0.50
17:5:79:THR:OG1	17:5:80:THR:N	2.44	0.50
17:5:200:GLU:HB2	17:5:202:LEU:HD23	1.93	0.50
1:A:358:GLY:O	1:A:362:ILE:HG12	2.12	0.50
5:E:101:ALA:HB3	5:E:104:VAL:HG23	1.93	0.50
1:A:337:GLY:HA3	1:A:421:ASN:HD22	1.75	0.50
21:A:852:BCR:H362	18:A:854:CLA:H43	1.94	0.50
14:2:167:ARG:HH12	14:2:182:PRO:HG3	1.76	0.50
1:A:411:VAL:HG23	1:A:555:ALA:HB1	1.94	0.50
2:B:90:ALA:HA	2:B:113:VAL:HG12	1.93	0.50
2:B:276:HIS:HB2	18:B:817:CLA:C1B	2.42	0.50
2:B:294:ASN:HD21	18:B:812:CLA:HMA2	1.76	0.50
14:2:223:GLU:HB2	18:2:610:CLA:HMB3	1.93	0.50
1:A:465:PRO:HA	1:A:468:MET:HG3	1.94	0.49
1:A:571:PHE:CE1	1:A:585:SER:HB3	2.48	0.49
2:B:101:VAL:HG13	2:B:112:PRO:HG3	1.95	0.49
17:5:74:LEU:HD11	17:5:81:PRO:HB3	1.94	0.49
17:5:100:LEU:HD22	27:5:620:XAT:H373	1.94	0.49
2:B:477:LEU:HD21	18:B:835:CLA:HMC3	1.94	0.49
21:B:843:BCR:HC8	7:G:135:LEU:HD13	1.94	0.49
4:D:109:ILE:HG13	4:D:161:PHE:HB3	1.93	0.49
1:A:427:VAL:HA	1:A:430:HIS:CE1	2.46	0.49
1:A:656:VAL:O	1:A:659:SER:OG	2.25	0.49
4:D:161:PHE:CZ	4:D:174:HIS:HB2	2.47	0.49
15:6:61:LEU:HD12	15:6:70:GLY:HA2	1.93	0.49
16:3:267:LYS:O	16:3:271:VAL:HG13	2.11	0.49
2:B:388:ALA:O	2:B:392:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:11:VAL:HG22	9:I:12:PRO:HD3	1.93	0.49
16:3:302:HIS:CG	18:3:613:CLA:HAA2	2.47	0.49
1:A:40:PRO:HG3	6:F:204:ILE:HD13	1.95	0.49
18:B:814:CLA:C1B	21:B:845:BCR:H20C	2.42	0.49
18:3:606:CLA:HMB1	18:3:609:CLA:HBC2	1.93	0.49
17:5:225:GLN:O	17:5:229:TRP:HB2	2.13	0.49
2:B:300:SER:HB3	7:G:91:GLN:HB2	1.93	0.49
3:C:55:GLU:OE1	3:C:66:ARG:NH1	2.45	0.49
12:L:171:ALA:HB3	12:L:183:ALA:HB1	1.94	0.49
15:6:164:ASP:HB3	15:6:167:LYS:HB2	1.93	0.49
12:L:121:VAL:HG11	12:L:210:ALA:HB1	1.94	0.49
2:B:256:THR:OG1	2:B:257:PHE:N	2.46	0.49
18:3:603:CLA:HMD2	18:3:609:CLA:C1D	2.43	0.49
17:5:84:HIS:NE2	17:5:96:ASP:OD2	2.46	0.49
17:5:86:ASP:OD1	17:5:87:GLY:N	2.43	0.49
17:5:140:THR:HG22	17:5:141:ASP:H	1.78	0.49
1:A:56:PHE:CD2	18:A:806:CLA:HMC2	2.47	0.48
7:G:125:THR:OG1	7:G:126:ILE:N	2.46	0.48
25:6:607:CHL:HHC	25:6:607:CHL:HBB1	1.94	0.48
16:3:121:PHE:CE2	27:3:619:XAT:H242	2.48	0.48
6:F:114:LEU:HA	6:F:127:LEU:HD13	1.95	0.48
18:5:613:CLA:O2D	18:5:613:CLA:H2A	2.13	0.48
1:A:43:THR:HG22	1:A:715:ARG:H	1.77	0.48
2:B:292:ARG:HH21	2:B:296:GLY:HA2	1.78	0.48
18:B:826:CLA:H92	18:B:826:CLA:H62	1.69	0.48
17:5:224:PRO:HG2	17:5:228:ARG:HD2	1.94	0.48
1:A:537:HIS:HE1	1:A:603:VAL:HG12	1.78	0.48
2:B:733:PHE:HB3	8:H:137:ARG:HD3	1.94	0.48
15:6:67:GLY:HA3	15:6:194:ILE:HG21	1.93	0.48
1:A:422:ASN:HB3	1:A:426:ARG:HG3	1.95	0.48
2:B:9:SER:O	2:B:13:SER:OG	2.32	0.48
2:B:410:ARG:O	2:B:414:HIS:ND1	2.43	0.48
18:A:833:CLA:HMB1	18:A:843:CLA:HAA2	1.94	0.48
1:A:175:TRP:HB2	18:A:812:CLA:HMC3	1.96	0.48
2:B:292:ARG:NE	2:B:296:GLY:O	2.34	0.48
2:B:704:GLN:O	2:B:708:VAL:HG23	2.14	0.48
15:6:205:LEU:O	15:6:209:VAL:HG23	2.14	0.48
2:B:576:PHE:O	2:B:580:VAL:HG23	2.14	0.48
18:B:816:CLA:H61	7:G:142:PHE:HD1	1.77	0.48
12:L:164:LYS:HB3	12:L:167:GLU:HG2	1.96	0.48
2:B:91:ILE:HD11	2:B:112:PRO:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:PHE:CD1	18:F:304:CLA:HMC2	2.47	0.48
18:3:603:CLA:HMC2	27:3:619:XAT:C12	2.43	0.48
18:5:602:CLA:CBB	27:5:620:XAT:H34	2.44	0.48
1:A:317:HIS:NE2	18:A:824:CLA:OBD	2.46	0.48
14:2:219:LEU:HD22	18:2:610:CLA:HMA1	1.94	0.48
1:A:462:LEU:HG	18:B:809:CLA:HMC3	1.96	0.47
25:2:606:CHL:HBB2	27:2:620:XAT:H181	1.92	0.47
2:B:84:VAL:HG23	8:H:140:LYS:HG2	1.96	0.47
8:H:62:THR:O	8:H:62:THR:OG1	2.29	0.47
16:3:150:ARG:NH2	16:3:244:ALA:O	2.47	0.47
1:A:444:PHE:HE2	18:A:839:CLA:HAB	1.78	0.47
1:A:537:HIS:HB3	18:A:838:CLA:HAB	1.95	0.47
18:A:808:CLA:HBB1	18:A:808:CLA:HMB1	1.97	0.47
18:A:819:CLA:H3A	18:A:819:CLA:HBA2	1.50	0.47
18:A:833:CLA:H3A	18:A:833:CLA:HBA2	1.55	0.47
2:B:671:TRP:O	2:B:675:ILE:HG12	2.13	0.47
18:B:815:CLA:H112	18:B:815:CLA:H91	1.68	0.47
6:F:204:ILE:HG13	6:F:205:ILE:HG12	1.95	0.47
14:2:181:ASP:OD2	14:2:187:ASN:ND2	2.47	0.47
16:3:235:LYS:HB3	16:3:237:LEU:HD11	1.96	0.47
2:B:15:ASP:OD1	2:B:17:THR:OG1	2.26	0.47
6:F:227:GLY:O	6:F:231:SER:OG	2.24	0.47
1:A:197:HIS:CD2	18:A:814:CLA:HMC2	2.49	0.47
18:A:826:CLA:H141	18:A:826:CLA:H162	1.72	0.47
18:B:816:CLA:CHD	18:B:817:CLA:HBB2	2.44	0.47
7:G:61:THR:O	7:G:65:ILE:HG23	2.14	0.47
17:5:72:ARG:NH1	17:5:86:ASP:O	2.38	0.47
17:5:236:ARG:O	17:5:240:VAL:HG22	2.14	0.47
2:B:364:ASP:OD2	2:B:367:THR:OG1	2.22	0.47
18:B:807:CLA:H2	18:B:807:CLA:H62	1.73	0.47
10:J:10:THR:HG22	10:J:12:PRO:HD2	1.97	0.47
15:6:134:ASN:OD1	15:6:134:ASN:N	2.36	0.47
25:6:601:CHL:HMA2	17:5:174:THR:HG21	1.97	0.47
1:A:646:ARG:HA	1:A:650:TRP:HB3	1.96	0.47
1:A:680:PHE:HZ	18:A:842:CLA:HBC2	1.78	0.47
2:B:182:LEU:HD13	18:B:813:CLA:HBB	1.96	0.47
18:B:839:CLA:HBB2	19:B:842:PQN:H141	1.97	0.47
3:C:24:ASP:OD2	4:D:174:HIS:ND1	2.42	0.47
15:6:60:TYR:HD2	15:6:61:LEU:HD23	1.80	0.47
15:6:60:TYR:CD2	15:6:61:LEU:HD23	2.49	0.47
16:3:141:LEU:HD13	18:3:602:CLA:H12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3:155:GLY:HA2	27:3:619:XAT:H181	1.97	0.47
16:3:262:GLU:OE1	16:3:262:GLU:N	2.41	0.47
1:A:511:ASP:OD1	1:A:511:ASP:N	2.48	0.47
18:A:829:CLA:H92	18:A:829:CLA:H41	1.97	0.47
6:F:210:LEU:O	6:F:214:ILE:HG13	2.15	0.47
10:J:32:PHE:HE2	18:J:101:CLA:HMA3	1.79	0.47
18:A:829:CLA:H162	18:A:829:CLA:H202	1.70	0.47
18:A:829:CLA:H191	21:J:102:BCR:H19C	1.96	0.47
2:B:2:ALA:HA	2:B:7:LYS:HA	1.97	0.47
4:D:145:LEU:HD23	4:D:145:LEU:HA	1.78	0.47
13:M:3:SER:O	13:M:3:SER:OG	2.25	0.47
14:2:184:PHE:O	14:2:186:ASN:N	2.42	0.47
25:6:607:CHL:C1B	27:6:619:XAT:H172	2.45	0.47
1:A:294:HIS:HE1	18:A:820:CLA:C1B	2.27	0.47
18:A:814:CLA:HAA2	18:A:826:CLA:H52	1.96	0.47
2:B:438:VAL:O	2:B:442:VAL:HG23	2.14	0.47
18:B:805:CLA:HED1	18:B:829:CLA:HBB2	1.96	0.47
12:L:111:GLU:HB2	18:L:302:CLA:HED1	1.97	0.47
25:6:607:CHL:CMB	27:6:619:XAT:H171	2.44	0.47
18:B:812:CLA:H3A	18:B:812:CLA:HBA2	1.43	0.46
18:2:610:CLA:H3A	18:2:610:CLA:HBA2	1.49	0.46
2:B:129:LEU:HD22	2:B:134:ASP:HB3	1.96	0.46
16:3:183:GLY:H	16:3:190:ASN:HA	1.81	0.46
18:A:831:CLA:H92	18:A:831:CLA:H61	1.75	0.46
2:B:656:VAL:HG22	18:B:840:CLA:HMB3	1.97	0.46
2:B:467:HIS:HD2	2:B:509:PHE:CZ	2.33	0.46
19:B:842:PQN:H242	21:B:848:BCR:H17C	1.97	0.46
8:H:71:ASN:HD22	12:L:100:ARG:HG2	1.81	0.46
11:K:107:ASP:OD1	11:K:107:ASP:N	2.48	0.46
1:A:10:VAL:O	1:A:312:ASN:ND2	2.48	0.46
18:B:828:CLA:H171	21:B:844:BCR:H352	1.97	0.46
3:C:29:VAL:HG12	3:C:39:ILE:HG22	1.96	0.46
17:5:112:GLN:NE2	17:5:205:GLY:H	2.13	0.46
18:B:840:CLA:H2A	18:B:840:CLA:O1D	2.16	0.46
8:H:60:ASP:HA	8:H:63:THR:HG22	1.97	0.46
14:2:240:GLN:HE22	26:2:619:LUT:H24	1.81	0.46
2:B:720:THR:HG23	18:B:802:CLA:O1D	2.15	0.46
3:C:33:GLY:O	5:E:104:VAL:HA	2.16	0.46
6:F:170:TYR:HB3	10:J:39:LEU:HD23	1.97	0.46
18:2:604:CLA:H2A	18:2:604:CLA:O2D	2.15	0.46
25:5:608:CHL:HBA2	18:5:610:CLA:HMD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:THR:HG23	23:B:850:DGD:HG31	1.96	0.46
18:B:827:CLA:HBB1	18:B:827:CLA:HMB1	1.97	0.46
6:F:135:LYS:HB2	6:F:135:LYS:HE3	1.71	0.46
17:5:231:GLU:HG3	18:5:610:CLA:C1B	2.46	0.46
1:A:275:PHE:CE2	18:A:837:CLA:HED1	2.51	0.46
2:B:203:ARG:HG3	2:B:250:ALA:HB1	1.97	0.46
15:6:201:LEU:CD2	27:6:619:XAT:C15	2.94	0.46
18:A:806:CLA:H101	18:A:814:CLA:H43	1.97	0.45
18:A:817:CLA:HMD2	16:3:187:PRO:HG3	1.98	0.45
2:B:177:HIS:CG	18:B:813:CLA:HMC2	2.51	0.45
2:B:309:THR:O	2:B:309:THR:OG1	2.34	0.45
2:B:649:MET:O	2:B:652:PHE:HB3	2.16	0.45
25:2:607:CHL:CMB	27:2:620:XAT:H161	2.38	0.45
17:5:239:MET:SD	18:5:602:CLA:HBB1	2.56	0.45
25:5:607:CHL:CAB	27:5:620:XAT:H161	2.34	0.45
2:B:326:ILE:HD12	18:B:824:CLA:HMC2	1.98	0.45
4:D:122:PRO:HD3	4:D:147:LEU:HD13	1.99	0.45
7:G:85:ARG:NH2	7:G:128:ASP:OD2	2.49	0.45
12:L:119:LEU:HD13	18:L:304:CLA:HBC2	1.99	0.45
21:2:621:BCR:H24C	21:2:621:BCR:H371	1.76	0.45
2:B:442:VAL:HG21	18:B:833:CLA:HAC2	1.98	0.45
4:D:118:ILE:HG12	4:D:128:ILE:HG22	1.99	0.45
14:2:121:ILE:CD1	27:2:620:XAT:H172	2.17	0.45
17:5:202:LEU:HG	17:5:206:TYR:HB2	1.97	0.45
1:A:335:HIS:HB3	1:A:338:LEU:HD12	1.98	0.45
1:A:536:ILE:O	1:A:540:THR:HG23	2.16	0.45
2:B:434:LEU:O	2:B:438:VAL:HG23	2.15	0.45
18:B:815:CLA:H61	18:B:815:CLA:H41	1.64	0.45
11:K:97:THR:OG1	11:K:98:GLY:N	2.50	0.45
17:5:84:HIS:ND1	17:5:102:GLN:OE1	2.49	0.45
1:A:48:ASN:HA	1:A:51:ALA:HB3	1.99	0.45
1:A:147:ALA:HB2	1:A:375:PRO:HD2	1.99	0.45
2:B:152:ALA:HB2	18:B:811:CLA:HBC2	1.99	0.45
18:B:806:CLA:H2	18:B:806:CLA:H62	1.64	0.45
14:2:230:ALA:O	14:2:234:VAL:HG12	2.17	0.45
1:A:92:GLY:HA3	1:A:145:TRP:CH2	2.51	0.45
18:A:818:CLA:H93	11:K:120:VAL:HG12	1.99	0.45
2:B:569:ASP:OD1	2:B:574:ASP:HB3	2.15	0.45
18:B:823:CLA:C4A	21:B:846:BCR:H16C	2.47	0.45
16:3:281:VAL:CG1	27:3:619:XAT:C14	2.95	0.45
2:B:415:LYS:HZ1	6:F:243:VAL:HG21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B:818:CLA:HBA2	18:B:818:CLA:H3A	1.43	0.45
6:F:151:ASP:OD1	6:F:151:ASP:N	2.50	0.45
1:A:13:MET:HB2	1:A:187:TRP:HB2	1.99	0.45
18:B:825:CLA:HMB2	18:B:838:CLA:H3A	1.97	0.45
18:6:603:CLA:HMD2	18:6:609:CLA:C1D	2.47	0.45
16:3:105:LYS:HB3	16:3:120:GLY:O	2.16	0.45
1:A:646:ARG:HB3	2:B:632:ILE:HD12	1.99	0.45
2:B:75:GLU:OE2	2:B:132:ASN:ND2	2.50	0.45
2:B:345:THR:HA	2:B:348:VAL:HG12	1.99	0.45
27:6:619:XAT:H35	27:6:619:XAT:H401	1.64	0.45
26:3:618:LUT:H31	26:3:618:LUT:H391	1.87	0.45
27:5:620:XAT:H373	27:5:620:XAT:H23	1.81	0.45
1:A:575:GLY:HA2	2:B:562:PRO:HD3	1.99	0.45
1:A:735:ILE:HG21	18:A:829:CLA:HMC2	1.99	0.45
18:B:809:CLA:H91	18:B:840:CLA:H12	1.98	0.45
16:3:147:ILE:HD11	18:3:609:CLA:CAD	2.47	0.45
16:3:281:VAL:HG11	27:3:619:XAT:C12	2.47	0.45
17:5:112:GLN:O	17:5:116:VAL:HG22	2.17	0.45
1:A:25:LYS:HB3	18:A:812:CLA:HAA2	2.00	0.44
21:A:856:BCR:H20C	21:A:856:BCR:H361	1.84	0.44
21:G:205:BCR:H24C	21:G:205:BCR:H371	1.78	0.44
8:H:55:ASP:OD1	8:H:57:GLY:N	2.44	0.44
1:A:147:ALA:HB1	18:A:820:CLA:HED1	1.98	0.44
1:A:693:GLN:HE22	1:A:715:ARG:HA	1.82	0.44
18:A:826:CLA:H62	18:A:826:CLA:H2	1.60	0.44
18:A:835:CLA:O2D	18:A:835:CLA:H2A	2.17	0.44
18:A:843:CLA:HMA2	2:B:685:THR:HG21	1.98	0.44
7:G:99:VAL:HG22	7:G:103:ASP:HB2	1.99	0.44
11:K:74:LEU:HD23	11:K:74:LEU:HA	1.76	0.44
1:A:40:PRO:HB3	1:A:45:TRP:CE3	2.53	0.44
18:A:827:CLA:HAB	21:A:851:BCR:H311	1.99	0.44
18:B:821:CLA:H3A	18:B:822:CLA:H42	1.99	0.44
12:L:138:GLU:N	12:L:138:GLU:OE1	2.50	0.44
1:A:467:ASP:HB3	18:A:835:CLA:HED3	2.00	0.44
2:B:65:LEU:HD12	2:B:142:LEU:HD12	1.99	0.44
2:B:158:GLN:O	2:B:162:LYS:HG3	2.18	0.44
2:B:348:VAL:HG21	18:B:828:CLA:HMD3	2.00	0.44
18:B:813:CLA:H152	18:B:828:CLA:HMD2	2.00	0.44
5:E:81:VAL:HG12	5:E:83:ARG:H	1.82	0.44
21:F:302:BCR:H20C	21:F:302:BCR:H361	1.84	0.44
15:6:140:ASN:HB3	15:6:143:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:5:125:VAL:HG23	17:5:242:MET:HG2	1.99	0.44
1:A:156:LEU:O	1:A:159:THR:HG22	2.18	0.44
1:A:197:HIS:CE1	18:A:821:CLA:HMD2	2.52	0.44
1:A:390:HIS:O	1:A:394:ILE:HG12	2.18	0.44
8:H:69:TYR:OH	12:L:84:THR:O	2.36	0.44
27:5:620:XAT:H401	27:5:620:XAT:H35	1.78	0.44
27:5:620:XAT:H31	27:5:620:XAT:H391	1.85	0.44
18:A:833:CLA:HMB1	18:A:833:CLA:HBB1	1.99	0.44
2:B:299:HIS:HB3	2:B:304:ILE:HD11	1.98	0.44
3:C:12:ILE:HG21	5:E:124:ASN:HD21	1.83	0.44
14:2:123:ILE:HB	14:2:124:PRO:HD3	2.00	0.44
25:5:607:CHL:HHC	25:5:607:CHL:HBB1	1.99	0.44
18:A:809:CLA:H3A	18:A:809:CLA:HBA2	1.35	0.44
18:A:820:CLA:H3A	18:A:820:CLA:HBA2	1.38	0.44
18:A:824:CLA:O1D	18:A:824:CLA:H2A	2.18	0.44
2:B:441:ASP:OD2	2:B:615:TYR:HB2	2.18	0.44
16:3:214:ARG:HH21	16:3:237:LEU:HD13	1.82	0.44
16:3:281:VAL:HG11	27:3:619:XAT:H14	1.98	0.44
1:A:694:GLU:OE1	2:B:536:LYS:NZ	2.47	0.44
21:A:848:BCR:H362	21:A:849:BCR:H21C	2.00	0.44
2:B:519:VAL:HG11	2:B:593:TYR:HB2	2.00	0.44
6:F:174:VAL:O	6:F:178:ILE:HG13	2.18	0.44
25:3:608:CHL:HHC	25:3:608:CHL:HBB1	1.99	0.44
17:5:147:GLU:HA	17:5:150:ALA:HB3	2.00	0.44
17:5:202:LEU:HD12	17:5:228:ARG:NH2	2.33	0.44
1:A:44:THR:HG23	1:A:715:ARG:HB2	1.99	0.43
18:A:801:CLA:H162	18:A:801:CLA:H122	1.73	0.43
18:A:831:CLA:H62	18:A:831:CLA:H41	1.82	0.43
2:B:48:ALA:HB3	13:M:30:LEU:HD21	2.00	0.43
9:I:26:LEU:O	9:I:30:ILE:HG12	2.18	0.43
15:6:107:PRO:O	15:6:112:TYR:N	2.50	0.43
1:A:346:TRP:HB3	18:A:806:CLA:HAC1	2.00	0.43
21:A:852:BCR:H20C	21:A:852:BCR:H361	1.73	0.43
21:A:856:BCR:H11C	21:A:856:BCR:H341	1.91	0.43
18:B:809:CLA:H121	18:B:809:CLA:H161	1.77	0.43
25:6:601:CHL:HMC	20:6:620:LHG:HC41	2.00	0.43
16:3:201:PHE:O	16:3:205:MET:HG2	2.17	0.43
18:A:827:CLA:HAA2	18:A:828:CLA:OBD	2.18	0.43
18:A:841:CLA:HED3	18:A:841:CLA:H2A	2.00	0.43
21:A:848:BCR:H20C	21:A:848:BCR:H361	1.77	0.43
11:K:82:SER:OG	11:K:83:THR:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:2:619:LUT:H15	26:2:619:LUT:H201	1.67	0.43
16:3:214:ARG:NH1	16:3:225:MET:SD	2.91	0.43
1:A:294:HIS:HB2	18:A:819:CLA:C1B	2.48	0.43
2:B:357:PRO:HG3	18:B:818:CLA:HBA1	2.00	0.43
18:B:827:CLA:H3A	18:B:827:CLA:HBA2	1.43	0.43
18:K:204:CLA:HMC2	21:K:207:BCR:HC8	2.00	0.43
12:L:145:ALA:O	12:L:149:THR:HG22	2.17	0.43
16:3:231:LEU:HD23	21:3:620:BCR:HC8	2.00	0.43
1:A:550:LYS:HD3	2:B:670:TYR:CE1	2.54	0.43
21:G:205:BCR:H20C	21:G:205:BCR:H361	1.82	0.43
12:L:70:LEU:HD11	12:L:78:GLY:N	2.33	0.43
15:6:238:VAL:HG11	18:6:613:CLA:HMD1	2.00	0.43
16:3:305:ASP:O	16:3:309:ASN:HB2	2.19	0.43
1:A:147:ALA:O	1:A:218:SER:OG	2.37	0.43
18:B:826:CLA:H112	18:B:826:CLA:H71	1.73	0.43
15:6:165:PRO:HA	15:6:168:ARG:HB3	2.01	0.43
1:A:572:PRO:HB3	1:A:719:ILE:HB	1.99	0.43
18:A:832:CLA:HAB	18:A:840:CLA:HBB2	2.01	0.43
2:B:516:ASP:OD2	2:B:593:TYR:OH	2.28	0.43
3:C:23:THR:HB	3:C:25:VAL:HG23	2.00	0.43
8:H:93:THR:O	12:L:193:ALA:HB1	2.19	0.43
13:M:7:SER:O	13:M:11:VAL:HG23	2.19	0.43
17:5:91:GLY:HA3	17:5:232:ILE:HD11	2.01	0.43
17:5:219:ASN:OD1	17:5:219:ASN:N	2.47	0.43
1:A:411:VAL:HG11	1:A:569:PHE:HB2	2.00	0.43
18:B:835:CLA:HBA2	18:B:835:CLA:H3A	1.67	0.43
5:E:108:VAL:O	5:E:124:ASN:HA	2.18	0.43
18:G:204:CLA:H3A	18:G:204:CLA:HBA1	1.76	0.43
16:3:306:PRO:HB2	18:3:614:CLA:HMA3	2.00	0.43
2:B:404:LYS:HA	2:B:404:LYS:HD2	1.81	0.43
2:B:658:ALA:HB3	18:B:803:CLA:HBB2	2.01	0.43
18:B:840:CLA:H2	19:B:842:PQN:H252	2.00	0.43
6:F:219:LEU:HD23	6:F:220:THR:HG23	2.01	0.43
21:I:101:BCR:H20C	21:I:101:BCR:H361	1.83	0.43
12:L:156:THR:O	12:L:160:ILE:HG13	2.18	0.43
14:2:117:GLY:HA3	27:2:620:XAT:H8	2.00	0.43
25:2:601:CHL:HED3	16:3:225:MET:HE1	2.01	0.43
21:B:843:BCR:H15C	21:B:843:BCR:H351	1.87	0.43
6:F:103:GLU:HG3	6:F:138:PHE:CG	2.54	0.43
17:5:263:HIS:ND1	18:5:613:CLA:HAA2	2.34	0.43
1:A:138:THR:HG21	1:A:743:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:A:805:CLA:HMA2	18:A:812:CLA:HMD2	2.01	0.42
18:A:827:CLA:H51	18:A:838:CLA:H2	2.00	0.42
2:B:428:PHE:CZ	21:J:103:BCR:HC21	2.54	0.42
18:B:808:CLA:O1A	18:B:827:CLA:HBD	2.18	0.42
18:B:823:CLA:HMA1	18:B:841:CLA:CGD	2.49	0.42
21:B:848:BCR:H20C	21:B:848:BCR:H361	1.81	0.42
11:K:114:LEU:HD23	11:K:114:LEU:HA	1.87	0.42
15:6:141:LEU:HB3	15:6:142:PRO:HD3	2.01	0.42
16:3:272:LYS:HB3	18:3:611:CLA:O1D	2.19	0.42
1:A:645:LEU:HD22	2:B:651:LEU:HD21	2.00	0.42
18:A:812:CLA:H62	18:A:812:CLA:H92	1.86	0.42
2:B:345:THR:HG23	2:B:379:ALA:HB2	2.00	0.42
2:B:358:TYR:OH	18:B:828:CLA:OBD	2.24	0.42
16:3:183:GLY:HA3	18:3:606:CLA:HBC1	2.01	0.42
17:5:154:ASP:OD1	17:5:154:ASP:N	2.51	0.42
1:A:65:GLU:N	1:A:65:GLU:OE1	2.53	0.42
1:A:707:LYS:HE2	6:F:236:GLU:HG2	2.01	0.42
2:B:194:LEU:HA	2:B:198:ALA:HB3	2.00	0.42
18:2:602:CLA:H3A	18:2:602:CLA:HBA2	1.46	0.42
17:5:177:TRP:O	17:5:181:VAL:HG12	2.19	0.42
2:B:294:ASN:ND2	18:B:812:CLA:HMA2	2.34	0.42
12:L:70:LEU:HA	12:L:80:GLU:HG3	2.02	0.42
12:L:125:VAL:HG22	12:L:140:GLY:HA3	2.02	0.42
27:2:620:XAT:H15	27:2:620:XAT:H201	1.83	0.42
25:5:607:CHL:CAB	27:5:620:XAT:H163	2.38	0.42
18:A:814:CLA:H111	18:A:814:CLA:H91	1.80	0.42
18:A:814:CLA:H61	18:A:814:CLA:H101	1.76	0.42
18:B:831:CLA:C1B	21:F:302:BCR:H11C	2.50	0.42
7:G:152:ASN:N	7:G:153:PRO:HD3	2.35	0.42
8:H:69:TYR:CZ	12:L:93:LEU:HD13	2.54	0.42
15:6:121:TRP:HB2	15:6:127:GLY:HA3	2.01	0.42
17:5:214:PRO:HD2	26:5:619:LUT:H23	2.00	0.42
1:A:504:SER:OG	1:A:506:THR:OG1	2.32	0.42
18:A:854:CLA:H11	2:B:616:LEU:HD23	2.02	0.42
2:B:160:LYS:HB2	2:B:160:LYS:HE3	1.80	0.42
7:G:61:THR:HA	7:G:64:THR:HG22	2.02	0.42
9:I:3:ALA:O	9:I:4:SER:OG	2.33	0.42
12:L:128:GLY:H	12:L:131:ARG:HB3	1.84	0.42
14:2:117:GLY:CA	27:2:620:XAT:H8	2.50	0.42
15:6:99:LEU:HD23	15:6:99:LEU:HA	1.91	0.42
16:3:278:MET:HG2	27:3:619:XAT:C15	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3:619:XAT:H15	27:3:619:XAT:H201	1.77	0.42
18:5:602:CLA:HBB2	27:5:620:XAT:H34	2.01	0.42
14:2:140:VAL:HG12	25:2:607:CHL:HED2	2.00	0.42
25:6:607:CHL:HBB1	25:6:607:CHL:CHC	2.50	0.42
17:5:265:SER:OG	17:5:266:ASP:OD1	2.34	0.42
1:A:139:SER:OG	18:A:809:CLA:OBD	2.38	0.42
1:A:513:VAL:HG23	1:A:520:ALA:HB3	2.02	0.42
2:B:228:GLY:HA3	7:G:144:LEU:HD13	2.01	0.42
5:E:107:PRO:HD2	5:E:127:PRO:HD3	2.01	0.42
12:L:95:ASN:HB3	18:L:302:CLA:HAC1	2.01	0.42
15:6:141:LEU:HA	15:6:144:ILE:HG22	2.02	0.42
15:6:144:ILE:HA	15:6:144:ILE:HD12	1.82	0.42
26:6:617:LUT:H15	26:6:617:LUT:H201	1.83	0.42
18:A:854:CLA:H142	18:A:854:CLA:H112	1.81	0.42
2:B:98:GLN:O	2:B:102:GLU:HG2	2.19	0.42
2:B:466:ALA:HA	2:B:476:VAL:O	2.20	0.42
2:B:548:PRO:HD2	3:C:62:PHE:CE1	2.54	0.42
11:K:117:VAL:HG22	21:K:207:BCR:H313	2.01	0.42
16:3:272:LYS:HB3	18:3:611:CLA:CGD	2.49	0.42
17:5:90:ALA:HA	17:5:229:TRP:CD1	2.55	0.42
1:A:262:PHE:HA	18:K:204:CLA:HBC3	2.02	0.42
18:A:805:CLA:HAA1	18:A:812:CLA:H2	2.02	0.42
7:G:144:LEU:HD23	7:G:144:LEU:HA	1.88	0.42
15:6:115:TRP:O	15:6:119:GLN:NE2	2.53	0.42
16:3:151:PHE:CE1	18:3:609:CLA:HBC3	2.55	0.42
21:3:620:BCR:H371	21:3:620:BCR:H24C	1.81	0.42
17:5:263:HIS:HA	17:5:270:ASN:CG	2.40	0.42
27:5:620:XAT:H30	27:5:620:XAT:H27	1.70	0.42
21:5:621:BCR:H24C	21:5:621:BCR:H371	1.84	0.42
18:A:830:CLA:H161	18:A:830:CLA:H192	1.81	0.41
2:B:31:PHE:O	2:B:37:MET:HG3	2.20	0.41
2:B:172:GLU:HG3	7:G:94:PRO:HB3	2.02	0.41
2:B:429:LEU:HB3	2:B:525:LEU:HB2	2.02	0.41
18:2:604:CLA:HMB2	21:2:621:BCR:H392	2.02	0.41
16:3:307:VAL:HG13	16:3:308:HIS:CD2	2.55	0.41
18:3:609:CLA:HMB2	18:3:617:CLA:C4B	2.50	0.41
21:5:621:BCR:H15C	21:5:621:BCR:H351	1.93	0.41
1:A:538:ALA:HB2	18:A:839:CLA:HMA1	2.01	0.41
18:A:826:CLA:H192	18:A:826:CLA:H161	1.89	0.41
2:B:616:LEU:HD12	2:B:616:LEU:HA	1.80	0.41
2:B:733:PHE:CE2	8:H:136:PRO:HD2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:176:LEU:HD23	6:F:176:LEU:HA	1.90	0.41
6:F:221:TRP:CG	6:F:222:PRO:HD3	2.55	0.41
7:G:113:THR:HA	7:G:116:LEU:HB2	2.02	0.41
15:6:227:LEU:HD13	15:6:227:LEU:HA	1.89	0.41
21:3:622:BCR:H361	21:3:622:BCR:H20C	1.82	0.41
17:5:107:LEU:O	17:5:111:VAL:HG23	2.19	0.41
1:A:435:ILE:HG13	1:A:554:PHE:HE1	1.85	0.41
18:A:829:CLA:H72	18:A:829:CLA:H111	1.60	0.41
2:B:523:ILE:HG12	2:B:590:VAL:HG22	2.03	0.41
18:B:813:CLA:H62	18:B:818:CLA:HBC3	2.02	0.41
18:B:831:CLA:C1C	21:F:302:BCR:H15C	2.51	0.41
10:J:39:LEU:HD13	21:J:103:BCR:H20C	2.01	0.41
14:2:198:GLY:N	18:2:610:CLA:OBD	2.52	0.41
27:2:620:XAT:H35	27:2:620:XAT:H401	1.85	0.41
1:A:78:LEU:HD23	1:A:78:LEU:HA	1.91	0.41
1:A:373:PRO:HG3	18:A:820:CLA:HBA1	2.02	0.41
18:A:803:CLA:OBD	18:B:802:CLA:HMB3	2.19	0.41
3:C:34:CYS:SG	3:C:35:LYS:N	2.90	0.41
21:3:622:BCR:H403	21:3:622:BCR:H371	2.01	0.41
17:5:75:TRP:CE2	17:5:76:LEU:HD22	2.55	0.41
17:5:125:VAL:HG13	17:5:129:LEU:CD2	2.46	0.41
17:5:129:LEU:HD13	17:5:129:LEU:HA	1.79	0.41
1:A:138:THR:O	1:A:138:THR:OG1	2.38	0.41
18:B:813:CLA:H102	18:B:813:CLA:H61	1.79	0.41
6:F:158:VAL:O	6:F:158:VAL:HG23	2.21	0.41
15:6:153:ALA:O	15:6:157:SER:OG	2.29	0.41
16:3:148:ASN:ND2	18:3:609:CLA:HMD1	2.35	0.41
17:5:263:HIS:HA	17:5:270:ASN:OD1	2.21	0.41
1:A:591:PHE:CE1	1:A:727:VAL:HB	2.55	0.41
18:A:827:CLA:HBB1	18:A:827:CLA:HMB1	2.03	0.41
18:A:834:CLA:C3B	18:A:835:CLA:HMB2	2.51	0.41
21:A:849:BCR:H11C	21:A:849:BCR:H341	1.95	0.41
2:B:373:THR:HG23	2:B:591:THR:HG21	2.03	0.41
2:B:694:LYS:HE2	2:B:694:LYS:HB2	1.72	0.41
3:C:6:LYS:HE3	4:D:215:TYR:HD1	1.85	0.41
5:E:131:GLU:OE2	5:E:133:ALA:N	2.53	0.41
21:F:302:BCR:H24C	21:F:302:BCR:H371	1.88	0.41
11:K:54:SER:HA	11:K:57:LEU:HB2	2.03	0.41
16:3:143:TYR:O	16:3:147:ILE:HG23	2.21	0.41
16:3:260:GLU:N	16:3:260:GLU:OE2	2.53	0.41
17:5:115:LEU:HD23	17:5:115:LEU:HA	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:ASN:HB2	18:A:837:CLA:HED2	2.01	0.41
1:A:530:ASP:HA	1:A:533:VAL:HG12	2.02	0.41
1:A:582:CYS:HB3	2:B:667:TRP:HE3	1.86	0.41
1:A:693:GLN:NE2	1:A:716:ALA:H	2.19	0.41
21:A:850:BCR:H15C	21:A:850:BCR:H351	1.89	0.41
7:G:103:ASP:N	7:G:103:ASP:OD1	2.54	0.41
16:3:106:GLN:OE1	16:3:106:GLN:N	2.48	0.41
1:A:32:PHE:HZ	1:A:49:LEU:HD12	1.86	0.41
1:A:77:GLN:NE2	1:A:81:ILE:HG13	2.36	0.41
1:A:474:ILE:H	1:A:474:ILE:HG13	1.58	0.41
1:A:537:HIS:CE1	1:A:603:VAL:HG12	2.55	0.41
18:A:811:CLA:H2A	18:A:811:CLA:HED3	2.02	0.41
18:A:812:CLA:H152	18:A:812:CLA:H18	1.69	0.41
19:B:842:PQN:C29	23:B:850:DGD:HAE2	2.51	0.41
12:L:116:HIS:HA	12:L:119:LEU:HD23	2.03	0.41
21:2:621:BCR:H20C	21:2:621:BCR:H361	1.91	0.41
17:5:178:MET:HE3	17:5:182:LYS:HB2	2.03	0.41
1:A:46:ILE:O	1:A:50:HIS:ND1	2.45	0.41
1:A:393:TRP:CD1	18:A:829:CLA:HAB	2.55	0.41
18:A:835:CLA:H161	18:A:835:CLA:H141	1.83	0.41
21:A:856:BCR:H371	21:A:856:BCR:H24C	1.82	0.41
2:B:268:LEU:HD12	2:B:357:PRO:HA	2.02	0.41
2:B:429:LEU:HD11	18:B:837:CLA:HMB3	2.02	0.41
2:B:510:LEU:HD12	2:B:510:LEU:H	1.86	0.41
21:G:205:BCR:H11C	21:G:205:BCR:H341	1.94	0.41
16:3:170:LEU:HG	16:3:171:ILE:HD13	2.03	0.41
16:3:302:HIS:CD2	18:3:613:CLA:HAA2	2.56	0.41
1:A:296:LEU:O	1:A:300:VAL:HG12	2.21	0.41
18:A:821:CLA:HBB1	21:K:202:BCR:H14C	2.03	0.41
18:A:843:CLA:HMD2	21:B:848:BCR:H393	2.03	0.41
7:G:96:GLN:HG2	7:G:101:HIS:ND1	2.36	0.41
7:G:121:PRO:HG2	18:G:204:CLA:HBC2	2.02	0.41
10:J:26:LEU:HD13	10:J:26:LEU:HA	1.92	0.41
12:L:204:LEU:HD13	12:L:204:LEU:HA	1.90	0.41
18:2:613:CLA:HBB	18:2:614:CLA:HBC3	2.02	0.41
15:6:204:PHE:CZ	27:6:619:XAT:H10	2.56	0.41
1:A:47:TRP:HE1	18:F:301:CLA:CBB	2.34	0.40
1:A:455:HIS:CD2	1:A:459:MET:HG2	2.56	0.40
18:A:829:CLA:HBB1	18:A:829:CLA:HMB1	2.02	0.40
20:A:847:LHG:H242	20:A:847:LHG:H112	2.03	0.40
2:B:574:ASP:N	2:B:574:ASP:OD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:121:SER:HB2	6:F:123:PRO:HD2	2.03	0.40
25:2:606:CHL:HBA1	25:2:606:CHL:H3A	1.69	0.40
25:5:608:CHL:HBB1	25:5:608:CHL:CHC	2.49	0.40
1:A:426:ARG:O	1:A:430:HIS:ND1	2.53	0.40
2:B:216:LEU:HD13	2:B:218:HIS:O	2.21	0.40
14:2:156:ILE:HG12	18:5:614:CLA:HAA2	2.02	0.40
17:5:230:LYS:HA	18:5:611:CLA:HED3	2.02	0.40
18:A:802:CLA:HBA2	2:B:427:LEU:HD23	2.03	0.40
18:A:854:CLA:H41	18:A:854:CLA:H62	1.64	0.40
2:B:524:ALA:HB2	18:B:837:CLA:HMA1	2.02	0.40
21:B:801:BCR:H11C	21:B:801:BCR:H341	1.99	0.40
18:B:809:CLA:H92	18:B:809:CLA:H62	1.94	0.40
14:2:263:THR:HG21	16:3:199:THR:HB	2.03	0.40
17:5:247:VAL:HG12	18:5:613:CLA:HMD3	2.03	0.40
18:5:601:CLA:HBB1	20:5:622:LHG:H262	2.03	0.40
21:A:852:BCR:H15C	21:A:852:BCR:H351	1.89	0.40
15:6:114:ASN:O	15:6:115:TRP:CD1	2.75	0.40
27:6:619:XAT:H15	27:6:619:XAT:H201	1.93	0.40
21:3:622:BCR:H15C	21:3:622:BCR:H351	1.95	0.40
18:A:820:CLA:O1A	18:A:830:CLA:HMD1	2.22	0.40
18:A:839:CLA:H11	18:A:839:CLA:H51	1.92	0.40
18:2:614:CLA:HAA2	16:3:203:LEU:HB2	2.03	0.40
15:6:104:VAL:HG23	15:6:115:TRP:CB	2.52	0.40
20:5:622:LHG:H281	20:5:622:LHG:H102	2.04	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [\(i\)](#)

### 5.3.1 Protein backbone [\(i\)](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	740/742 (100%)	700 (95%)	40 (5%)	0	<b>100</b> <b>100</b>

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	731/733 (100%)	696 (95%)	35 (5%)	0	100	100
3	C	78/80 (98%)	68 (87%)	10 (13%)	0	100	100
4	D	139/141 (99%)	133 (96%)	6 (4%)	0	100	100
5	E	60/62 (97%)	56 (93%)	4 (7%)	0	100	100
6	F	157/159 (99%)	149 (95%)	8 (5%)	0	100	100
7	G	96/98 (98%)	90 (94%)	6 (6%)	0	100	100
8	H	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
9	I	32/34 (94%)	29 (91%)	3 (9%)	0	100	100
10	J	39/41 (95%)	39 (100%)	0	0	100	100
11	K	77/79 (98%)	66 (86%)	11 (14%)	0	100	100
12	L	157/159 (99%)	146 (93%)	11 (7%)	0	100	100
13	M	27/29 (93%)	27 (100%)	0	0	100	100
14	2	204/210 (97%)	192 (94%)	12 (6%)	0	100	100
15	6	190/192 (99%)	170 (90%)	20 (10%)	0	100	100
16	3	211/213 (99%)	195 (92%)	16 (8%)	0	100	100
17	5	200/205 (98%)	173 (86%)	27 (14%)	0	100	100
All	All	3226/3267 (99%)	3013 (93%)	213 (7%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	603/603 (100%)	580 (96%)	23 (4%)	33	65
2	B	595/595 (100%)	580 (98%)	15 (2%)	47	74
3	C	67/67 (100%)	63 (94%)	4 (6%)	19	52
4	D	115/115 (100%)	111 (96%)	4 (4%)	36	67
5	E	52/52 (100%)	49 (94%)	3 (6%)	20	53

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	F	128/129 (99%)	123 (96%)	5 (4%)	32	65
7	G	78/78 (100%)	68 (87%)	10 (13%)	4	19
8	H	72/73 (99%)	66 (92%)	6 (8%)	11	38
9	I	30/30 (100%)	29 (97%)	1 (3%)	38	68
10	J	35/35 (100%)	35 (100%)	0	100	100
11	K	56/57 (98%)	46 (82%)	10 (18%)	2	8
12	L	121/122 (99%)	114 (94%)	7 (6%)	20	53
13	M	24/24 (100%)	23 (96%)	1 (4%)	30	62
14	2	164/167 (98%)	153 (93%)	11 (7%)	16	47
15	6	148/148 (100%)	140 (95%)	8 (5%)	22	55
16	3	166/166 (100%)	158 (95%)	8 (5%)	25	59
17	5	162/164 (99%)	152 (94%)	10 (6%)	18	51
All	All	2616/2625 (100%)	2490 (95%)	126 (5%)	29	59

All (126) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	THR
1	A	25	LYS
1	A	34	ARG
1	A	35	THR
1	A	55	ASP
1	A	71	PHE
1	A	86	SER
1	A	96	SER
1	A	141	PHE
1	A	266	TRP
1	A	275	PHE
1	A	276	ARG
1	A	312	ASN
1	A	423	LEU
1	A	432	ASP
1	A	459	MET
1	A	470	SER
1	A	503	THR
1	A	519	VAL
1	A	522	LEU
1	A	530	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	638	SER
1	A	732	LEU
2	B	47	PHE
2	B	85	ARG
2	B	106	ARG
2	B	203	ARG
2	B	205	GLU
2	B	216	LEU
2	B	257	PHE
2	B	315	LEU
2	B	394	PHE
2	B	465	SER
2	B	576	PHE
2	B	577	TYR
2	B	677	THR
2	B	701	SER
2	B	703	VAL
3	C	23	THR
3	C	44	ARG
3	C	54	CYS
3	C	58	CYS
4	D	82	ASN
4	D	85	THR
4	D	145	LEU
4	D	177	ASP
5	E	91	ASP
5	E	113	ASP
5	E	126	SER
6	F	99	PHE
6	F	174	VAL
6	F	219	LEU
6	F	240	ASN
6	F	243	VAL
7	G	61	THR
7	G	63	LEU
7	G	65	ILE
7	G	72	LEU
7	G	73	LEU
7	G	96	GLN
7	G	102	PHE
7	G	106	ASP
7	G	117	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
7	G	125	THR
8	H	62	THR
8	H	66	TRP
8	H	85	PHE
8	H	99	LEU
8	H	122	LEU
8	H	131	VAL
9	I	33	ASP
11	K	54	SER
11	K	56	ASN
11	K	57	LEU
11	K	63	THR
11	K	77	SER
11	K	88	LEU
11	K	95	LEU
11	K	103	PHE
11	K	108	THR
11	K	114	LEU
12	L	70	LEU
12	L	71	ASN
12	L	127	THR
12	L	151	LEU
12	L	174	LEU
12	L	179	ARG
12	L	219	LEU
13	M	3	SER
14	2	63	ASN
14	2	82	LEU
14	2	110	HIS
14	2	129	LYS
14	2	139	ASN
14	2	149	ASP
14	2	161	PHE
14	2	193	ASP
14	2	194	VAL
14	2	201	TRP
14	2	222	LYS
15	6	61	LEU
15	6	79	VAL
15	6	81	GLU
15	6	115	TRP
15	6	134	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	6	148	GLU
15	6	232	HIS
15	6	240	ILE
16	3	135	PHE
16	3	137	ASP
16	3	147	ILE
16	3	175	THR
16	3	200	LEU
16	3	252	ASN
16	3	253	PHE
16	3	256	PHE
17	5	129	LEU
17	5	140	THR
17	5	168	LEU
17	5	172	VAL
17	5	190	ASP
17	5	220	ASP
17	5	248	GLN
17	5	254	THR
17	5	266	ASP
17	5	270	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (43) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	179	HIS
1	A	197	HIS
1	A	222	ASN
1	A	294	HIS
1	A	421	ASN
1	A	437	HIS
1	A	613	GLN
1	A	693	GLN
2	B	132	ASN
2	B	218	HIS
2	B	294	ASN
2	B	308	HIS
2	B	363	GLN
2	B	374	HIS
2	B	432	HIS
2	B	467	HIS
2	B	528	HIS

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Mol	Chain	Res	Type
2	B	682	HIS
3	C	3	HIS
4	D	185	ASN
5	E	90	ASN
5	E	124	ASN
6	F	105	GLN
7	G	148	ASN
7	G	152	ASN
8	H	65	ASN
8	H	81	GLN
8	H	126	ASN
8	H	130	GLN
10	J	2	GLN
12	L	95	ASN
14	2	110	HIS
14	2	186	ASN
14	2	187	ASN
14	2	251	ASN
14	2	261	HIS
15	6	82	ASN
15	6	226	HIS
16	3	148	ASN
16	3	297	GLN
16	3	298	ASN
16	3	308	HIS
16	3	309	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry

205 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	A	834	-	65,73,73	1.49	6 (9%)	76,113,113	1.35	7 (9%)
18	CLA	B	812	-	45,53,73	1.77	5 (11%)	52,89,113	1.63	7 (13%)
18	CLA	5	602	-	45,53,73	1.82	6 (13%)	52,89,113	1.52	8 (15%)
18	CLA	B	823	-	45,53,73	1.76	7 (15%)	52,89,113	1.61	6 (11%)
18	CLA	5	611	-	38,45,73	2.93	9 (23%)	41,76,113	1.45	8 (19%)
18	CLA	5	612	-	44,52,73	1.82	6 (13%)	51,88,113	1.59	7 (13%)
18	CLA	3	613	-	53,62,73	1.66	6 (11%)	61,100,113	1.46	8 (13%)
18	CLA	6	609	-	40,48,73	1.91	7 (17%)	50,83,113	1.70	10 (20%)
25	CHL	2	616	-	46,54,74	2.34	15 (32%)	49,90,114	2.78	18 (36%)
18	CLA	6	606	-	39,48,73	1.87	6 (15%)	45,82,113	1.75	9 (20%)
19	PQN	A	844	-	34,34,34	0.39	0	42,45,45	0.47	0
18	CLA	3	615	-	37,44,73	1.95	6 (16%)	42,77,113	1.59	6 (14%)
18	CLA	A	813	-	54,62,73	1.60	6 (11%)	62,99,113	1.48	6 (9%)
18	CLA	A	832	-	41,49,73	1.81	6 (14%)	47,84,113	1.71	9 (19%)
18	CLA	B	840	-	65,73,73	1.48	6 (9%)	76,113,113	1.40	6 (7%)
18	CLA	3	604	-	41,50,73	1.92	7 (17%)	51,86,113	1.63	9 (17%)
18	CLA	6	611	20	37,46,73	2.01	7 (18%)	46,81,113	1.70	9 (19%)
21	BCR	B	847	-	41,41,41	1.14	2 (4%)	56,56,56	1.23	6 (10%)
18	CLA	B	803	-	65,73,73	1.47	7 (10%)	76,113,113	1.42	7 (9%)
18	CLA	2	612	-	41,49,73	1.87	6 (14%)	47,84,113	1.62	7 (14%)
18	CLA	B	819	-	45,53,73	1.78	6 (13%)	52,89,113	1.61	8 (15%)
18	CLA	3	612	-	43,51,73	1.83	5 (11%)	49,86,113	1.56	6 (12%)
18	CLA	B	821	-	46,54,73	1.75	5 (10%)	53,90,113	1.54	7 (13%)
18	CLA	3	611	-	39,48,73	1.90	6 (15%)	44,83,113	1.68	8 (18%)
18	CLA	A	837	1	45,53,73	1.79	5 (11%)	52,89,113	1.59	9 (17%)
18	CLA	2	609	14	55,63,73	1.60	6 (10%)	64,101,113	1.47	8 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	B	838	-	47,55,73	1.72	6 (12%)	54,91,113	1.57	8 (14%)
18	CLA	B	828	-	65,73,73	1.49	7 (10%)	76,113,113	1.31	8 (10%)
18	CLA	B	817	-	45,53,73	1.77	6 (13%)	52,89,113	1.58	6 (11%)
18	CLA	2	613	14	45,53,73	1.79	5 (11%)	52,89,113	1.55	7 (13%)
18	CLA	3	606	-	40,49,73	1.87	6 (15%)	45,84,113	1.61	6 (13%)
18	CLA	A	826	-	65,73,73	1.46	6 (9%)	76,113,113	1.43	7 (9%)
21	BCR	I	101	-	41,41,41	1.13	2 (4%)	56,56,56	1.19	4 (7%)
18	CLA	A	819	-	45,53,73	1.77	7 (15%)	52,89,113	1.62	7 (13%)
18	CLA	B	822	-	55,63,73	1.60	6 (10%)	64,101,113	1.49	8 (12%)
21	BCR	3	620	-	41,41,41	1.12	2 (4%)	56,56,56	1.25	6 (10%)
25	CHL	3	608	-	39,48,74	2.42	15 (38%)	44,83,114	2.74	19 (43%)
18	CLA	B	807	-	65,73,73	1.47	6 (9%)	76,113,113	1.41	9 (11%)
18	CLA	A	825	-	55,63,73	1.62	6 (10%)	64,101,113	1.42	8 (12%)
21	BCR	L	301	-	41,41,41	1.15	2 (4%)	56,56,56	1.22	6 (10%)
18	CLA	B	829	-	45,53,73	1.81	6 (13%)	52,89,113	1.64	7 (13%)
18	CLA	A	833	-	45,53,73	1.78	5 (11%)	52,89,113	1.63	7 (13%)
18	CLA	B	810	-	46,54,73	1.74	6 (13%)	53,90,113	1.53	6 (11%)
18	CLA	K	204	-	44,52,73	1.84	6 (13%)	55,88,113	1.65	8 (14%)
18	CLA	K	206	11	45,53,73	1.80	6 (13%)	52,89,113	1.54	7 (13%)
18	CLA	6	610	15	42,51,73	1.83	6 (14%)	48,87,113	1.61	7 (14%)
18	CLA	B	836	-	60,68,73	1.52	6 (10%)	70,107,113	1.44	7 (10%)
18	CLA	B	830	-	45,53,73	1.78	6 (13%)	52,89,113	1.62	7 (13%)
18	CLA	A	824	-	51,59,73	1.68	6 (11%)	59,96,113	1.52	6 (10%)
25	CHL	5	615	17	43,51,74	2.31	15 (34%)	45,86,114	2.89	20 (44%)
18	CLA	K	203	-	45,53,73	1.79	6 (13%)	52,89,113	1.57	7 (13%)
21	BCR	B	848	-	41,41,41	1.14	2 (4%)	56,56,56	1.24	7 (12%)
18	CLA	3	602	16	60,68,73	1.54	5 (8%)	70,107,113	1.42	8 (11%)
21	BCR	A	851	-	41,41,41	1.18	2 (4%)	56,56,56	1.26	9 (16%)
18	CLA	2	614	-	42,50,73	1.82	6 (14%)	48,85,113	1.59	7 (14%)
20	LHG	A	847	18	26,26,48	0.83	1 (3%)	29,32,54	1.35	3 (10%)
21	BCR	B	843	-	41,41,41	1.17	2 (4%)	56,56,56	1.22	7 (12%)
18	CLA	2	610	14	45,53,73	1.72	7 (15%)	52,89,113	1.59	6 (11%)
26	LUT	6	617	-	42,43,43	7.20	25 (59%)	51,60,60	3.87	19 (37%)
18	CLA	B	832	-	45,53,73	1.76	6 (13%)	52,89,113	1.62	9 (17%)
21	BCR	3	622	-	41,41,41	1.11	2 (4%)	56,56,56	1.28	6 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	3	610	-	41,49,73	1.82	7 (17%)	47,84,113	1.67	8 (17%)
18	CLA	5	601	17	45,53,73	1.79	5 (11%)	52,89,113	1.56	7 (13%)
25	CHL	2	606	14	46,54,74	2.28	15 (32%)	49,90,114	2.87	18 (36%)
20	LHG	A	846	-	48,48,48	0.64	1 (2%)	51,54,54	1.27	6 (11%)
18	CLA	B	805	-	65,73,73	1.49	6 (9%)	76,113,113	1.38	8 (10%)
21	BCR	A	849	-	41,41,41	1.17	2 (4%)	56,56,56	1.21	6 (10%)
18	CLA	A	835	-	65,73,73	1.48	7 (10%)	76,113,113	1.42	9 (11%)
21	BCR	A	848	-	41,41,41	1.13	2 (4%)	56,56,56	1.28	4 (7%)
18	CLA	G	203	-	50,58,73	1.70	6 (12%)	58,95,113	1.51	8 (13%)
18	CLA	B	804	-	45,53,73	1.76	6 (13%)	52,89,113	1.64	7 (13%)
18	CLA	A	841	-	65,73,73	1.48	7 (10%)	76,113,113	1.38	9 (11%)
20	LHG	2	622	18,14	34,34,48	0.72	0	37,40,54	1.27	4 (10%)
18	CLA	F	303	-	45,53,73	1.78	5 (11%)	52,89,113	1.55	8 (15%)
18	CLA	B	837	-	46,54,73	1.75	7 (15%)	53,90,113	1.57	8 (15%)
26	LUT	5	619	-	42,43,43	7.28	26 (61%)	51,60,60	3.85	19 (37%)
18	CLA	A	842	-	43,52,73	1.81	6 (13%)	49,88,113	1.56	7 (14%)
18	CLA	A	814	-	65,73,73	1.45	7 (10%)	76,113,113	1.43	8 (10%)
18	CLA	A	801	-	65,73,73	1.46	6 (9%)	76,113,113	1.33	7 (9%)
18	CLA	5	614	-	43,51,73	1.81	6 (13%)	49,86,113	1.59	7 (14%)
25	CHL	2	607	-	43,51,74	2.37	15 (34%)	45,86,114	2.85	20 (44%)
18	CLA	5	603	-	43,52,73	1.82	6 (13%)	49,88,113	1.57	6 (12%)
26	LUT	2	619	-	42,43,43	7.18	25 (59%)	51,60,60	4.12	21 (41%)
21	BCR	F	302	-	41,41,41	1.12	2 (4%)	56,56,56	1.21	6 (10%)
18	CLA	A	816	-	42,50,73	1.78	6 (14%)	48,85,113	1.69	7 (14%)
18	CLA	3	609	-	45,53,73	1.75	6 (13%)	52,89,113	1.61	6 (11%)
18	CLA	F	301	-	45,53,73	1.77	6 (13%)	52,89,113	1.56	6 (11%)
18	CLA	5	610	-	55,63,73	1.61	6 (10%)	64,101,113	1.45	8 (12%)
18	CLA	A	815	-	45,53,73	1.77	6 (13%)	52,89,113	1.57	8 (15%)
25	CHL	6	601	15	44,53,74	2.38	16 (36%)	46,89,114	2.73	17 (36%)
18	CLA	A	854	-	65,73,73	1.46	6 (9%)	76,113,113	1.38	9 (11%)
18	CLA	B	816	-	53,62,73	1.64	6 (11%)	61,100,113	1.42	6 (9%)
18	CLA	A	831	-	65,73,73	1.49	6 (9%)	76,113,113	1.44	7 (9%)
18	CLA	B	827	-	45,53,73	1.76	7 (15%)	52,89,113	1.61	8 (15%)
18	CLA	L	304	-	42,50,73	1.80	6 (14%)	48,85,113	1.67	7 (14%)
18	CLA	6	616	15	43,51,73	1.91	6 (13%)	54,87,113	1.66	8 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
21	BCR	5	621	-	41,41,41	1.16	2 (4%)	56,56,56	1.24	5 (8%)
20	LHG	5	622	-	36,36,48	0.72	1 (2%)	39,42,54	1.25	4 (10%)
26	LUT	3	618	16	42,43,43	7.26	24 (57%)	51,60,60	3.85	22 (43%)
18	CLA	A	809	1	45,53,73	1.73	6 (13%)	52,89,113	1.65	8 (15%)
18	CLA	A	802	-	45,53,73	1.75	6 (13%)	52,89,113	1.63	6 (11%)
18	CLA	A	827	-	65,73,73	1.47	6 (9%)	76,113,113	1.38	8 (10%)
18	CLA	A	838	-	51,59,73	1.68	5 (9%)	59,96,113	1.48	8 (13%)
18	CLA	3	607	16	39,48,73	1.93	7 (17%)	48,83,113	1.67	9 (18%)
24	LMG	2	617	-	13,13,55	1.01	0	18,18,63	1.55	4 (22%)
18	CLA	B	809	-	65,73,73	1.47	6 (9%)	76,113,113	1.37	8 (10%)
18	CLA	B	825	-	65,73,73	1.46	7 (10%)	76,113,113	1.39	8 (10%)
21	BCR	A	852	-	41,41,41	1.16	2 (4%)	56,56,56	1.18	6 (10%)
21	BCR	G	205	-	41,41,41	1.13	2 (4%)	56,56,56	1.23	6 (10%)
18	CLA	6	604	-	49,57,73	1.70	6 (12%)	55,93,113	1.53	8 (14%)
18	CLA	6	614	-	37,46,73	2.00	6 (16%)	46,81,113	1.69	11 (23%)
25	CHL	2	601	14	45,53,74	2.33	15 (33%)	52,89,114	2.80	21 (40%)
22	SF4	C	101	3	0,12,12	-	-	-	-	-
21	BCR	2	621	-	41,41,41	1.15	2 (4%)	56,56,56	1.22	6 (10%)
18	CLA	6	603	-	55,63,73	1.61	6 (10%)	64,101,113	1.49	8 (12%)
21	BCR	K	207	-	41,41,41	1.15	2 (4%)	56,56,56	1.32	6 (10%)
18	CLA	B	833	-	45,53,73	1.77	6 (13%)	52,89,113	1.65	9 (17%)
18	CLA	5	613	17	45,53,73	1.78	6 (13%)	52,89,113	1.63	7 (13%)
18	CLA	B	815	-	60,68,73	1.55	7 (11%)	70,107,113	1.39	7 (10%)
18	CLA	A	818	-	65,73,73	1.47	7 (10%)	76,113,113	1.43	8 (10%)
18	CLA	6	608	-	43,52,73	1.83	6 (13%)	49,88,113	1.56	6 (12%)
25	CHL	5	607	-	43,51,74	2.44	15 (34%)	45,86,114	2.84	20 (44%)
18	CLA	B	835	-	45,53,73	1.79	6 (13%)	52,89,113	1.57	7 (13%)
18	CLA	B	841	20	65,73,73	1.49	6 (9%)	76,113,113	1.35	9 (11%)
18	CLA	L	303	-	45,53,73	1.77	6 (13%)	52,89,113	1.58	7 (13%)
18	CLA	A	804	-	65,73,73	1.46	7 (10%)	76,113,113	1.43	9 (11%)
18	CLA	A	808	-	45,53,73	1.76	6 (13%)	52,89,113	1.63	8 (15%)
18	CLA	A	839	-	65,73,73	1.45	5 (7%)	76,113,113	1.41	8 (10%)
18	CLA	B	818	-	45,53,73	1.79	6 (13%)	52,89,113	1.55	7 (13%)
18	CLA	A	812	-	65,73,73	1.50	6 (9%)	76,113,113	1.36	8 (10%)
18	CLA	J	101	-	42,50,73	1.83	6 (14%)	48,85,113	1.57	6 (12%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	2	604	-	50,58,73	1.65	6 (12%)	58,95,113	1.64	8 (13%)
21	BCR	B	801	-	41,41,41	1.14	2 (4%)	56,56,56	1.17	4 (7%)
18	CLA	G	204	7	43,52,73	1.83	6 (13%)	49,88,113	1.56	7 (14%)
21	BCR	J	102	-	41,41,41	1.17	2 (4%)	56,56,56	1.27	6 (10%)
18	CLA	A	823	1	44,52,73	1.78	6 (13%)	51,88,113	1.66	6 (11%)
18	CLA	B	826	-	65,73,73	1.46	7 (10%)	76,113,113	1.41	8 (10%)
18	CLA	B	808	-	50,58,73	1.67	7 (14%)	58,95,113	1.55	9 (15%)
18	CLA	B	814	-	43,52,73	1.81	6 (13%)	49,88,113	1.61	7 (14%)
18	CLA	2	603	-	45,53,73	1.78	6 (13%)	52,89,113	1.57	6 (11%)
18	CLA	3	614	-	39,48,73	1.89	6 (15%)	44,83,113	1.62	7 (15%)
18	CLA	3	603	-	55,63,73	1.63	7 (12%)	64,101,113	1.43	6 (9%)
21	BCR	K	202	-	41,41,41	1.14	2 (4%)	56,56,56	1.28	6 (10%)
27	XAT	5	620	-	39,47,47	1.03	3 (7%)	54,74,74	2.76	21 (38%)
18	CLA	A	829	-	65,73,73	1.45	7 (10%)	76,113,113	1.42	9 (11%)
18	CLA	A	805	-	55,63,73	1.56	7 (12%)	64,101,113	1.56	8 (12%)
24	LMG	2	618	-	13,13,55	1.07	0	18,18,63	1.54	4 (22%)
18	CLA	A	811	-	45,53,73	1.77	6 (13%)	52,89,113	1.62	7 (13%)
25	CHL	5	608	-	51,59,74	2.16	16 (31%)	55,96,114	2.69	20 (36%)
18	CLA	A	806	-	65,73,73	1.47	7 (10%)	76,113,113	1.40	7 (9%)
18	CLA	F	305	-	45,53,73	1.78	6 (13%)	52,89,113	1.57	6 (11%)
18	CLA	A	803	-	65,73,73	1.49	6 (9%)	76,113,113	1.36	7 (9%)
18	CLA	5	604	-	43,51,73	1.78	5 (11%)	48,86,113	1.66	7 (14%)
21	BCR	B	844	-	41,41,41	1.10	2 (4%)	56,56,56	1.18	4 (7%)
18	CLA	B	834	-	45,53,73	1.80	6 (13%)	52,89,113	1.57	7 (13%)
18	CLA	F	304	-	41,49,73	1.83	6 (14%)	47,84,113	1.67	7 (14%)
27	XAT	2	620	-	39,47,47	1.01	2 (5%)	54,74,74	3.14	22 (40%)
18	CLA	B	811	-	54,62,73	1.68	7 (12%)	67,100,113	1.48	9 (13%)
23	DGD	B	850	-	67,67,67	0.86	2 (2%)	81,81,81	1.44	11 (13%)
18	CLA	B	806	2	65,73,73	1.47	6 (9%)	76,113,113	1.39	8 (10%)
21	BCR	J	103	2	41,41,41	1.15	3 (7%)	56,56,56	1.30	7 (12%)
18	CLA	A	820	-	45,53,73	1.78	6 (13%)	52,89,113	1.60	7 (13%)
18	CLA	A	840	-	45,53,73	1.79	6 (13%)	52,89,113	1.55	6 (11%)
18	CLA	B	831	-	49,57,73	1.69	6 (12%)	55,93,113	1.53	6 (10%)
18	CLA	A	821	-	44,52,73	1.81	6 (13%)	51,88,113	1.58	7 (13%)
18	CLA	2	611	20	41,50,73	1.85	6 (14%)	49,85,113	1.60	6 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	3	617	-	39,48,73	1.88	6 (15%)	44,83,113	1.69	8 (18%)
18	CLA	G	201	-	45,53,73	1.80	5 (11%)	52,89,113	1.56	7 (13%)
18	CLA	A	828	-	46,54,73	1.73	7 (15%)	53,90,113	1.53	6 (11%)
18	CLA	A	817	-	39,48,73	1.86	6 (15%)	44,83,113	1.68	8 (18%)
18	CLA	B	802	-	53,61,73	1.63	7 (13%)	61,98,113	1.42	8 (13%)
21	BCR	B	845	-	41,41,41	1.16	2 (4%)	56,56,56	1.22	5 (8%)
18	CLA	6	602	-	45,53,73	1.76	6 (13%)	52,89,113	1.62	7 (13%)
27	XAT	6	619	-	39,47,47	0.98	2 (5%)	54,74,74	3.10	21 (38%)
19	PQN	B	842	-	34,34,34	0.40	0	42,45,45	0.45	0
24	LMG	J	104	-	30,30,55	0.94	0	38,38,63	1.27	5 (13%)
21	BCR	L	305	-	41,41,41	1.12	2 (4%)	56,56,56	1.28	9 (16%)
25	CHL	2	608	-	40,49,74	2.43	16 (40%)	41,84,114	2.87	18 (43%)
18	CLA	A	822	-	43,51,73	1.87	7 (16%)	54,87,113	1.65	8 (14%)
21	BCR	B	846	-	41,41,41	1.16	2 (4%)	56,56,56	1.23	6 (10%)
25	CHL	5	606	-	41,49,74	2.24	13 (31%)	48,84,114	2.95	19 (39%)
18	CLA	A	807	1	43,52,73	1.80	6 (13%)	49,88,113	1.57	6 (12%)
21	BCR	A	856	-	41,41,41	1.15	2 (4%)	56,56,56	1.33	7 (12%)
18	CLA	L	302	-	45,53,73	1.78	6 (13%)	52,89,113	1.61	7 (13%)
22	SF4	C	102	3	0,12,12	-	-	-	-	-
20	LHG	6	620	18,15	27,27,48	0.80	1 (3%)	30,33,54	1.25	2 (6%)
20	LHG	B	851	18	22,22,48	0.83	0	25,28,54	1.20	1 (4%)
18	CLA	6	613	15	45,53,73	1.79	6 (13%)	52,89,113	1.56	7 (13%)
18	CLA	A	843	-	65,73,73	1.50	7 (10%)	76,113,113	1.37	9 (11%)
18	CLA	5	609	17	43,51,73	1.79	6 (13%)	48,86,113	1.64	6 (12%)
18	CLA	K	201	11	46,54,73	1.84	7 (15%)	53,90,113	1.46	4 (7%)
18	CLA	A	810	1	45,53,73	1.79	6 (13%)	52,89,113	1.59	7 (13%)
18	CLA	2	602	-	45,53,73	1.77	6 (13%)	52,89,113	1.59	7 (13%)
18	CLA	A	836	-	50,58,73	1.69	6 (12%)	58,95,113	1.54	7 (12%)
22	SF4	A	853	1,2	0,12,12	-	-	-	-	-
18	CLA	A	830	-	65,73,73	1.46	6 (9%)	76,113,113	1.40	6 (7%)
21	BCR	A	850	-	41,41,41	1.15	2 (4%)	56,56,56	1.20	6 (10%)
18	CLA	B	813	-	65,73,73	1.45	7 (10%)	76,113,113	1.47	10 (13%)
18	CLA	6	612	-	45,53,73	1.79	6 (13%)	52,89,113	1.57	7 (13%)
25	CHL	6	607	15	40,49,74	2.53	16 (40%)	41,84,114	2.84	19 (46%)
27	XAT	3	619	-	39,47,47	0.98	2 (5%)	54,74,74	2.74	20 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
18	CLA	A	845	20	52,60,73	1.66	5 (9%)	60,97,113	1.52	8 (13%)
18	CLA	B	820	-	43,51,73	1.77	6 (13%)	49,86,113	1.64	6 (12%)
18	CLA	B	824	-	45,53,73	1.79	6 (13%)	52,89,113	1.59	8 (15%)
18	CLA	B	839	-	40,49,73	1.86	6 (15%)	45,84,113	1.61	6 (13%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	A	834	-	1/1/15/20	12/37/115/115	-
18	CLA	B	812	-	1/1/11/20	3/13/91/115	-
18	CLA	5	602	-	1/1/11/20	3/13/91/115	-
18	CLA	B	823	-	1/1/11/20	5/13/91/115	-
18	CLA	5	611	-	1/1/7/20	5/10/70/115	-
18	CLA	5	612	-	1/1/11/20	5/11/89/115	-
18	CLA	3	613	-	1/1/13/20	7/23/101/115	-
18	CLA	6	609	-	1/1/10/20	3/8/84/115	-
25	CHL	2	616	-	3/3/16/26	6/15/113/137	-
18	CLA	6	606	-	1/1/9/20	3/8/82/115	-
19	PQN	A	844	-	-	8/23/43/43	0/2/2/2
18	CLA	3	615	-	1/1/8/20	0/0/74/115	-
18	CLA	A	813	-	1/1/12/20	3/24/102/115	-
18	CLA	A	832	-	1/1/10/20	6/8/86/115	-
18	CLA	B	840	-	1/1/15/20	12/37/115/115	-
18	CLA	3	604	-	1/1/11/20	0/9/85/115	-
18	CLA	6	611	20	1/1/10/20	1/4/80/115	-
21	BCR	B	847	-	-	2/29/63/63	0/2/2/2
18	CLA	B	803	-	1/1/15/20	10/37/115/115	-
18	CLA	2	612	-	1/1/10/20	0/8/86/115	-
18	CLA	B	819	-	1/1/11/20	3/13/91/115	-
18	CLA	3	612	-	1/1/10/20	2/11/89/115	-
18	CLA	B	821	-	1/1/11/20	7/15/93/115	-
18	CLA	3	611	-	1/1/10/20	2/6/84/115	-
18	CLA	A	837	1	1/1/11/20	2/13/91/115	-
18	CLA	2	609	14	1/1/13/20	11/25/103/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	B	838	-	1/1/11/20	2/16/94/115	-
18	CLA	B	828	-	1/1/15/20	10/37/115/115	-
18	CLA	B	817	-	1/1/11/20	2/13/91/115	-
18	CLA	2	613	14	1/1/11/20	6/13/91/115	-
18	CLA	3	606	-	1/1/10/20	0/8/86/115	-
18	CLA	A	826	-	1/1/15/20	12/37/115/115	-
21	BCR	I	101	-	-	5/29/63/63	0/2/2/2
18	CLA	A	819	-	1/1/11/20	6/13/91/115	-
18	CLA	B	822	-	1/1/13/20	8/25/103/115	-
25	CHL	3	608	-	3/3/15/26	2/6/104/137	-
21	BCR	3	620	-	-	9/29/63/63	0/2/2/2
18	CLA	B	807	-	1/1/15/20	12/37/115/115	-
18	CLA	A	825	-	1/1/13/20	9/25/103/115	-
21	BCR	L	301	-	-	10/29/63/63	0/2/2/2
18	CLA	B	829	-	1/1/11/20	0/13/91/115	-
18	CLA	A	833	-	1/1/11/20	7/13/91/115	-
18	CLA	B	810	-	1/1/11/20	9/15/93/115	-
18	CLA	K	204	-	1/1/11/20	5/13/89/115	-
18	CLA	K	206	11	1/1/11/20	5/13/91/115	-
18	CLA	6	610	15	1/1/11/20	1/9/87/115	-
18	CLA	B	836	-	1/1/14/20	7/31/109/115	-
18	CLA	B	830	-	1/1/11/20	1/13/91/115	-
18	CLA	A	824	-	1/1/12/20	9/21/99/115	-
25	CHL	5	615	17	3/3/15/26	3/12/110/137	-
18	CLA	K	203	-	1/1/11/20	4/13/91/115	-
21	BCR	B	848	-	-	13/29/63/63	0/2/2/2
18	CLA	3	602	16	1/1/14/20	9/31/109/115	-
21	BCR	A	851	-	-	9/29/63/63	0/2/2/2
18	CLA	2	614	-	1/1/10/20	2/10/88/115	-
20	LHG	A	847	18	-	19/31/31/53	-
21	BCR	B	843	-	-	9/29/63/63	0/2/2/2
18	CLA	2	610	14	1/1/11/20	4/13/91/115	-
26	LUT	6	617	-	-	12/29/67/67	0/2/2/2
18	CLA	B	832	-	1/1/11/20	6/13/91/115	-
21	BCR	3	622	-	-	10/29/63/63	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	3	610	-	1/1/10/20	3/8/86/115	-
18	CLA	5	601	17	1/1/11/20	2/13/91/115	-
25	CHL	2	606	14	3/3/16/26	5/15/113/137	-
20	LHG	A	846	-	-	24/53/53/53	-
18	CLA	B	805	-	1/1/15/20	11/37/115/115	-
21	BCR	A	849	-	-	8/29/63/63	0/2/2/2
18	CLA	A	835	-	1/1/15/20	7/37/115/115	-
21	BCR	A	848	-	-	6/29/63/63	0/2/2/2
18	CLA	G	203	-	1/1/12/20	7/19/97/115	-
18	CLA	B	804	-	1/1/11/20	5/13/91/115	-
18	CLA	A	841	-	1/1/15/20	13/37/115/115	-
20	LHG	2	622	18,14	-	23/39/39/53	-
18	CLA	F	303	-	1/1/11/20	4/13/91/115	-
18	CLA	B	837	-	1/1/11/20	4/15/93/115	-
26	LUT	5	619	-	-	8/29/67/67	0/2/2/2
18	CLA	A	842	-	1/1/11/20	3/11/89/115	-
18	CLA	A	814	-	1/1/15/20	16/37/115/115	-
18	CLA	A	801	-	1/1/15/20	7/37/115/115	-
18	CLA	5	614	-	1/1/10/20	7/11/89/115	-
25	CHL	2	607	-	3/3/15/26	3/12/110/137	-
18	CLA	5	603	-	1/1/11/20	4/11/89/115	-
26	LUT	2	619	-	-	7/29/67/67	0/2/2/2
21	BCR	F	302	-	-	14/29/63/63	0/2/2/2
18	CLA	A	816	-	1/1/10/20	4/10/88/115	-
18	CLA	3	609	-	1/1/11/20	1/13/91/115	-
18	CLA	F	301	-	1/1/11/20	3/13/91/115	-
18	CLA	5	610	-	1/1/13/20	3/25/103/115	-
18	CLA	A	815	-	1/1/11/20	5/13/91/115	-
25	CHL	6	601	15	3/3/16/26	3/13/111/137	-
18	CLA	A	854	-	1/1/15/20	15/37/115/115	-
18	CLA	B	816	-	1/1/13/20	3/23/101/115	-
18	CLA	A	831	-	1/1/15/20	14/37/115/115	-
18	CLA	B	827	-	1/1/11/20	5/13/91/115	-
18	CLA	L	304	-	1/1/10/20	2/10/88/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	6	616	15	1/1/11/20	4/11/87/115	-
21	BCR	5	621	-	-	9/29/63/63	0/2/2/2
20	LHG	5	622	-	-	19/41/41/53	-
26	LUT	3	618	16	-	7/29/67/67	0/2/2/2
18	CLA	A	809	1	1/1/11/20	5/13/91/115	-
18	CLA	A	802	-	1/1/11/20	7/13/91/115	-
18	CLA	A	827	-	1/1/15/20	12/37/115/115	-
18	CLA	A	838	-	1/1/12/20	3/21/99/115	-
18	CLA	3	607	16	1/1/10/20	1/8/84/115	-
24	LMG	2	617	-	-	4/4/24/70	0/1/1/1
18	CLA	B	809	-	1/1/15/20	9/37/115/115	-
18	CLA	B	825	-	1/1/15/20	11/37/115/115	-
21	BCR	A	852	-	-	11/29/63/63	0/2/2/2
21	BCR	G	205	-	-	5/29/63/63	0/2/2/2
18	CLA	6	604	-	1/1/11/20	8/18/96/115	-
18	CLA	6	614	-	1/1/10/20	2/4/80/115	-
25	CHL	2	601	14	3/3/16/26	8/15/111/137	-
22	SF4	C	101	3	-	-	0/6/5/5
21	BCR	2	621	-	-	8/29/63/63	0/2/2/2
18	CLA	6	603	-	1/1/13/20	13/25/103/115	-
21	BCR	K	207	-	-	11/29/63/63	0/2/2/2
18	CLA	B	833	-	1/1/11/20	8/13/91/115	-
18	CLA	5	613	17	1/1/11/20	5/13/91/115	-
18	CLA	B	815	-	1/1/14/20	11/31/109/115	-
18	CLA	A	818	-	1/1/15/20	18/37/115/115	-
18	CLA	6	608	-	1/1/11/20	3/11/89/115	-
25	CHL	5	607	-	3/3/15/26	4/12/110/137	-
18	CLA	B	835	-	1/1/11/20	8/13/91/115	-
18	CLA	B	841	20	1/1/15/20	14/37/115/115	-
18	CLA	L	303	-	1/1/11/20	0/13/91/115	-
18	CLA	A	804	-	1/1/15/20	9/37/115/115	-
18	CLA	A	808	-	1/1/11/20	3/13/91/115	-
18	CLA	A	839	-	1/1/15/20	15/37/115/115	-
18	CLA	B	818	-	1/1/11/20	2/13/91/115	-
18	CLA	A	812	-	1/1/15/20	11/37/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	J	101	-	1/1/10/20	5/10/88/115	-
18	CLA	2	604	-	1/1/12/20	7/19/97/115	-
21	BCR	B	801	-	-	7/29/63/63	0/2/2/2
18	CLA	G	204	7	1/1/11/20	4/11/89/115	-
21	BCR	J	102	-	-	9/29/63/63	0/2/2/2
18	CLA	A	823	1	1/1/11/20	5/11/89/115	-
18	CLA	B	826	-	1/1/15/20	12/37/115/115	-
18	CLA	B	808	-	1/1/12/20	2/19/97/115	-
18	CLA	B	814	-	1/1/11/20	1/11/89/115	-
18	CLA	2	603	-	1/1/11/20	5/13/91/115	-
18	CLA	3	614	-	1/1/10/20	1/6/84/115	-
18	CLA	3	603	-	1/1/13/20	6/25/103/115	-
21	BCR	K	202	-	-	8/29/63/63	0/2/2/2
27	XAT	5	620	-	-	3/31/93/93	0/4/4/4
18	CLA	A	829	-	1/1/15/20	20/37/115/115	-
18	CLA	A	805	-	1/1/13/20	10/25/103/115	-
25	CHL	5	608	-	3/3/17/26	8/21/119/137	-
18	CLA	A	811	-	1/1/11/20	2/13/91/115	-
24	LMG	2	618	-	-	2/4/24/70	0/1/1/1
18	CLA	A	806	-	1/1/15/20	14/37/115/115	-
18	CLA	F	305	-	1/1/11/20	5/13/91/115	-
18	CLA	A	803	-	1/1/15/20	7/37/115/115	-
18	CLA	5	604	-	1/1/10/20	5/9/88/115	-
21	BCR	B	844	-	-	6/29/63/63	0/2/2/2
18	CLA	B	834	-	1/1/11/20	5/13/91/115	-
18	CLA	F	304	-	1/1/10/20	2/8/86/115	-
27	XAT	2	620	-	-	3/31/93/93	0/4/4/4
18	CLA	B	811	-	1/1/13/20	9/25/101/115	-
23	DGD	B	850	-	-	29/55/95/95	0/2/2/2
18	CLA	B	806	2	1/1/15/20	19/37/115/115	-
21	BCR	J	103	2	-	23/29/63/63	0/2/2/2
18	CLA	A	820	-	1/1/11/20	4/13/91/115	-
18	CLA	A	840	-	1/1/11/20	4/13/91/115	-
18	CLA	B	831	-	1/1/11/20	7/18/96/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
18	CLA	A	821	-	1/1/11/20	6/11/89/115	-
18	CLA	2	611	20	1/1/10/20	0/7/85/115	-
18	CLA	3	617	-	1/1/10/20	2/6/84/115	-
18	CLA	G	201	-	1/1/11/20	5/13/91/115	-
18	CLA	A	828	-	1/1/11/20	7/15/93/115	-
18	CLA	A	817	-	1/1/10/20	0/6/84/115	-
18	CLA	B	802	-	1/1/12/20	3/23/101/115	-
21	BCR	B	845	-	-	19/29/63/63	0/2/2/2
18	CLA	6	602	-	1/1/11/20	7/13/91/115	-
27	XAT	6	619	-	-	1/31/93/93	0/4/4/4
19	PQN	B	842	-	-	9/23/43/43	0/2/2/2
24	LMG	J	104	-	-	12/25/45/70	0/1/1/1
21	BCR	L	305	-	-	10/29/63/63	0/2/2/2
25	CHL	2	608	-	3/3/15/26	1/8/106/137	-
18	CLA	A	822	-	1/1/11/20	2/11/87/115	-
25	CHL	5	606	-	3/3/15/26	2/10/106/137	-
21	BCR	B	846	-	-	17/29/63/63	0/2/2/2
18	CLA	A	807	1	1/1/11/20	4/11/89/115	-
21	BCR	A	856	-	-	7/29/63/63	0/2/2/2
18	CLA	L	302	-	1/1/11/20	2/13/91/115	-
22	SF4	C	102	3	-	-	0/6/5/5
20	LHG	6	620	18,15	-	17/32/32/53	-
20	LHG	B	851	18	-	10/26/26/53	-
18	CLA	6	613	15	1/1/11/20	7/13/91/115	-
18	CLA	A	843	-	1/1/15/20	10/37/115/115	-
18	CLA	5	609	17	1/1/10/20	6/9/87/115	-
18	CLA	K	201	11	1/1/11/20	7/15/93/115	-
18	CLA	A	810	1	1/1/11/20	4/13/91/115	-
18	CLA	2	602	-	1/1/11/20	6/13/91/115	-
18	CLA	A	836	-	1/1/12/20	0/19/97/115	-
22	SF4	A	853	1,2	-	-	0/6/5/5
18	CLA	A	830	-	1/1/15/20	5/37/115/115	-
25	CHL	6	607	15	3/3/15/26	2/8/106/137	-
18	CLA	B	813	-	1/1/15/20	16/37/115/115	-
18	CLA	6	612	-	1/1/11/20	2/13/91/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
21	BCR	A	850	-	-	3/29/63/63	0/2/2/2
27	XAT	3	619	-	-	0/31/93/93	0/4/4/4
18	CLA	A	845	20	1/1/12/20	10/22/100/115	-
18	CLA	B	820	-	1/1/10/20	1/11/89/115	-
18	CLA	B	824	-	1/1/11/20	2/13/91/115	-
18	CLA	B	839	-	1/1/10/20	0/8/86/115	-

All (1235) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	5	619	LUT	C34-C33	20.14	1.62	1.35
26	3	618	LUT	C34-C33	19.98	1.62	1.35
26	2	619	LUT	C34-C33	19.80	1.62	1.35
26	6	617	LUT	C34-C33	19.76	1.62	1.35
26	5	619	LUT	C14-C13	16.75	1.58	1.35
26	2	619	LUT	C14-C13	16.50	1.57	1.35
26	3	618	LUT	C24-C25	16.50	1.53	1.33
26	3	618	LUT	C14-C13	16.48	1.57	1.35
26	3	618	LUT	C10-C9	16.46	1.57	1.35
26	5	619	LUT	C24-C25	16.45	1.53	1.33
26	6	617	LUT	C14-C13	16.40	1.57	1.35
26	5	619	LUT	C10-C9	16.40	1.57	1.35
26	6	617	LUT	C24-C25	16.38	1.53	1.33
26	2	619	LUT	C24-C25	16.23	1.53	1.33
26	2	619	LUT	C10-C9	16.22	1.57	1.35
26	6	617	LUT	C10-C9	16.15	1.57	1.35
26	5	619	LUT	C30-C29	15.72	1.56	1.35
26	3	618	LUT	C30-C29	15.70	1.56	1.35
26	2	619	LUT	C30-C29	15.50	1.56	1.35
26	6	617	LUT	C30-C29	15.48	1.56	1.35
18	5	611	CLA	C1A-NA	12.34	1.40	1.29
26	6	617	LUT	C5-C6	11.69	1.54	1.34
26	3	618	LUT	C5-C6	11.59	1.54	1.34
26	5	619	LUT	C5-C6	11.52	1.54	1.34
26	2	619	LUT	C5-C6	10.90	1.53	1.34
26	5	619	LUT	C28-C27	10.63	1.57	1.32
26	3	618	LUT	C28-C27	10.61	1.57	1.32
26	2	619	LUT	C28-C27	10.55	1.57	1.32
26	6	617	LUT	C28-C27	10.52	1.57	1.32
26	3	618	LUT	C11-C12	9.25	1.58	1.34
26	5	619	LUT	C11-C12	9.21	1.58	1.34
26	2	619	LUT	C11-C12	9.08	1.58	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	6	617	LUT	C11-C12	9.03	1.57	1.34
26	5	619	LUT	C35-C15	8.95	1.59	1.36
26	3	618	LUT	C35-C15	8.87	1.59	1.36
26	2	619	LUT	C35-C15	8.80	1.58	1.36
26	6	617	LUT	C35-C15	8.76	1.58	1.36
26	5	619	LUT	C31-C32	8.13	1.55	1.34
26	3	618	LUT	C31-C32	8.13	1.55	1.34
26	2	619	LUT	C31-C32	8.04	1.55	1.34
26	6	617	LUT	C31-C32	8.01	1.55	1.34
18	K	201	CLA	C4B-NB	7.94	1.42	1.35
26	3	618	LUT	C8-C7	7.73	1.56	1.33
18	3	612	CLA	C4B-NB	7.69	1.42	1.35
26	5	619	LUT	C8-C7	7.68	1.56	1.33
18	5	602	CLA	C4B-NB	7.64	1.42	1.35
26	2	619	LUT	C8-C7	7.63	1.56	1.33
18	6	616	CLA	C4B-NB	7.63	1.42	1.35
18	2	612	CLA	C4B-NB	7.59	1.42	1.35
26	6	617	LUT	C8-C7	7.58	1.56	1.33
18	6	613	CLA	C4B-NB	7.56	1.42	1.35
18	6	611	CLA	C4B-NB	7.55	1.41	1.35
18	B	834	CLA	C4B-NB	7.55	1.41	1.35
18	A	837	CLA	C4B-NB	7.52	1.41	1.35
18	K	206	CLA	C4B-NB	7.52	1.41	1.35
18	3	613	CLA	C4B-NB	7.52	1.41	1.35
18	A	840	CLA	C4B-NB	7.51	1.41	1.35
18	G	201	CLA	C4B-NB	7.51	1.41	1.35
18	5	614	CLA	C4B-NB	7.51	1.41	1.35
18	A	812	CLA	C4B-NB	7.50	1.41	1.35
18	K	203	CLA	C4B-NB	7.50	1.41	1.35
18	L	302	CLA	C4B-NB	7.50	1.41	1.35
18	F	305	CLA	C4B-NB	7.49	1.41	1.35
18	A	810	CLA	C4B-NB	7.49	1.41	1.35
18	5	601	CLA	C4B-NB	7.48	1.41	1.35
18	6	612	CLA	C4B-NB	7.48	1.41	1.35
18	B	824	CLA	C4B-NB	7.48	1.41	1.35
18	B	829	CLA	C4B-NB	7.48	1.41	1.35
18	5	612	CLA	C4B-NB	7.48	1.41	1.35
18	B	835	CLA	C4B-NB	7.47	1.41	1.35
18	A	831	CLA	C4B-NB	7.47	1.41	1.35
18	3	611	CLA	C4B-NB	7.46	1.41	1.35
18	B	837	CLA	C4B-NB	7.46	1.41	1.35
18	3	603	CLA	C4B-NB	7.46	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	5	613	CLA	C4B-NB	7.46	1.41	1.35
18	2	613	CLA	C4B-NB	7.46	1.41	1.35
18	3	615	CLA	C4B-NB	7.46	1.41	1.35
18	A	824	CLA	C4B-NB	7.45	1.41	1.35
18	3	607	CLA	C4B-NB	7.45	1.41	1.35
18	J	101	CLA	C4B-NB	7.45	1.41	1.35
18	3	614	CLA	C4B-NB	7.45	1.41	1.35
18	B	818	CLA	C4B-NB	7.44	1.41	1.35
18	3	617	CLA	C4B-NB	7.44	1.41	1.35
18	A	833	CLA	C4B-NB	7.43	1.41	1.35
18	B	811	CLA	C4B-NB	7.43	1.41	1.35
18	G	203	CLA	C4B-NB	7.43	1.41	1.35
18	A	803	CLA	C4B-NB	7.43	1.41	1.35
18	A	836	CLA	C4B-NB	7.43	1.41	1.35
18	2	614	CLA	C4B-NB	7.43	1.41	1.35
18	6	614	CLA	C4B-NB	7.43	1.41	1.35
18	A	819	CLA	C4B-NB	7.42	1.41	1.35
18	B	841	CLA	C4B-NB	7.42	1.41	1.35
18	6	608	CLA	C4B-NB	7.42	1.41	1.35
18	B	815	CLA	C4B-NB	7.42	1.41	1.35
18	B	828	CLA	C4B-NB	7.41	1.41	1.35
18	6	606	CLA	C4B-NB	7.41	1.41	1.35
18	A	845	CLA	C4B-NB	7.41	1.41	1.35
18	B	805	CLA	C4B-NB	7.40	1.41	1.35
18	G	204	CLA	C4B-NB	7.40	1.41	1.35
18	5	611	CLA	C4B-NB	7.39	1.41	1.35
18	A	842	CLA	C4B-NB	7.38	1.41	1.35
18	B	821	CLA	C4B-NB	7.38	1.41	1.35
18	B	838	CLA	C4B-NB	7.38	1.41	1.35
18	2	603	CLA	C4B-NB	7.38	1.41	1.35
18	2	611	CLA	C4B-NB	7.38	1.41	1.35
18	A	825	CLA	C4B-NB	7.37	1.41	1.35
18	B	840	CLA	C4B-NB	7.37	1.41	1.35
18	A	834	CLA	C4B-NB	7.36	1.41	1.35
18	L	304	CLA	C4B-NB	7.36	1.41	1.35
18	A	820	CLA	C4B-NB	7.36	1.41	1.35
18	6	604	CLA	C4B-NB	7.36	1.41	1.35
18	B	831	CLA	C4B-NB	7.36	1.41	1.35
18	A	843	CLA	C4B-NB	7.35	1.41	1.35
18	F	303	CLA	C4B-NB	7.35	1.41	1.35
18	A	811	CLA	C4B-NB	7.34	1.41	1.35
18	A	838	CLA	C4B-NB	7.34	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B	809	CLA	C4B-NB	7.34	1.41	1.35
18	6	609	CLA	C4B-NB	7.33	1.41	1.35
18	3	604	CLA	C4B-NB	7.33	1.41	1.35
18	F	304	CLA	C4B-NB	7.33	1.41	1.35
18	5	610	CLA	C4B-NB	7.33	1.41	1.35
18	B	812	CLA	C4B-NB	7.32	1.41	1.35
18	B	839	CLA	C4B-NB	7.32	1.41	1.35
18	5	603	CLA	C4B-NB	7.32	1.41	1.35
18	B	804	CLA	C4B-NB	7.31	1.41	1.35
18	B	816	CLA	C4B-NB	7.31	1.41	1.35
18	A	821	CLA	C4B-NB	7.31	1.41	1.35
18	B	832	CLA	C4B-NB	7.31	1.41	1.35
18	3	606	CLA	C4B-NB	7.30	1.41	1.35
18	6	603	CLA	C4B-NB	7.30	1.41	1.35
18	B	808	CLA	C4B-NB	7.30	1.41	1.35
18	5	609	CLA	C4B-NB	7.30	1.41	1.35
18	B	819	CLA	C4B-NB	7.29	1.41	1.35
18	B	814	CLA	C4B-NB	7.29	1.41	1.35
18	A	808	CLA	C4B-NB	7.28	1.41	1.35
18	3	610	CLA	C4B-NB	7.28	1.41	1.35
18	B	830	CLA	C4B-NB	7.28	1.41	1.35
18	A	823	CLA	C4B-NB	7.28	1.41	1.35
18	B	833	CLA	C4B-NB	7.28	1.41	1.35
18	2	604	CLA	C4B-NB	7.28	1.41	1.35
18	2	602	CLA	C4B-NB	7.28	1.41	1.35
18	F	301	CLA	C4B-NB	7.27	1.41	1.35
18	A	818	CLA	C4B-NB	7.27	1.41	1.35
18	A	822	CLA	C4B-NB	7.27	1.41	1.35
18	B	822	CLA	C4B-NB	7.27	1.41	1.35
18	A	835	CLA	C4B-NB	7.27	1.41	1.35
18	B	810	CLA	C4B-NB	7.26	1.41	1.35
18	A	832	CLA	C4B-NB	7.26	1.41	1.35
18	B	807	CLA	C4B-NB	7.26	1.41	1.35
18	5	604	CLA	C4B-NB	7.26	1.41	1.35
18	A	827	CLA	C4B-NB	7.25	1.41	1.35
18	K	204	CLA	C4B-NB	7.25	1.41	1.35
18	A	841	CLA	C4B-NB	7.24	1.41	1.35
18	B	817	CLA	C4B-NB	7.24	1.41	1.35
18	3	602	CLA	C4B-NB	7.23	1.41	1.35
18	B	825	CLA	C4B-NB	7.23	1.41	1.35
18	A	807	CLA	C4B-NB	7.22	1.41	1.35
18	3	609	CLA	C4B-NB	7.21	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B	802	CLA	C4B-NB	7.21	1.41	1.35
18	L	303	CLA	C4B-NB	7.21	1.41	1.35
18	B	806	CLA	C4B-NB	7.20	1.41	1.35
18	A	815	CLA	C4B-NB	7.19	1.41	1.35
18	2	609	CLA	C4B-NB	7.19	1.41	1.35
18	A	806	CLA	C4B-NB	7.18	1.41	1.35
18	A	817	CLA	C4B-NB	7.18	1.41	1.35
18	B	820	CLA	C4B-NB	7.18	1.41	1.35
18	B	827	CLA	C4B-NB	7.18	1.41	1.35
18	6	610	CLA	C4B-NB	7.18	1.41	1.35
18	6	602	CLA	C4B-NB	7.18	1.41	1.35
18	A	804	CLA	C4B-NB	7.17	1.41	1.35
18	A	813	CLA	C4B-NB	7.17	1.41	1.35
18	A	816	CLA	C4B-NB	7.16	1.41	1.35
18	A	839	CLA	C4B-NB	7.16	1.41	1.35
18	A	830	CLA	C4B-NB	7.14	1.41	1.35
18	A	802	CLA	C4B-NB	7.14	1.41	1.35
18	A	854	CLA	C4B-NB	7.14	1.41	1.35
18	B	836	CLA	C4B-NB	7.13	1.41	1.35
18	B	803	CLA	C4B-NB	7.12	1.41	1.35
18	B	823	CLA	C4B-NB	7.12	1.41	1.35
18	B	826	CLA	C4B-NB	7.10	1.41	1.35
18	A	828	CLA	C4B-NB	7.10	1.41	1.35
18	A	826	CLA	C4B-NB	7.08	1.41	1.35
18	A	801	CLA	C4B-NB	7.07	1.41	1.35
18	A	809	CLA	C4B-NB	7.07	1.41	1.35
18	A	829	CLA	C4B-NB	7.03	1.41	1.35
18	A	814	CLA	C4B-NB	7.02	1.41	1.35
18	A	805	CLA	C4B-NB	7.01	1.41	1.35
18	B	813	CLA	C4B-NB	6.95	1.41	1.35
18	2	610	CLA	C4B-NB	6.95	1.41	1.35
26	6	617	LUT	C12-C13	-6.14	1.32	1.45
26	2	619	LUT	C12-C13	-6.05	1.32	1.45
26	5	619	LUT	C12-C13	-6.00	1.33	1.45
26	6	617	LUT	C32-C33	-6.00	1.33	1.45
26	2	619	LUT	C32-C33	-5.99	1.33	1.45
26	5	619	LUT	C32-C33	-5.86	1.33	1.45
26	3	618	LUT	C32-C33	-5.83	1.33	1.45
26	3	618	LUT	C12-C13	-5.76	1.33	1.45
25	5	607	CHL	CHC-C1C	5.27	1.48	1.35
25	5	607	CHL	C3B-C2B	5.22	1.47	1.40
25	6	607	CHL	CHC-C1C	5.22	1.48	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	6	607	CHL	C3B-C2B	5.22	1.47	1.40
25	5	607	CHL	O2D-CGD	5.19	1.45	1.33
25	5	615	CHL	O2D-CGD	5.19	1.45	1.33
25	2	608	CHL	CHC-C1C	5.17	1.48	1.35
25	2	616	CHL	O2D-CGD	5.16	1.45	1.33
25	2	607	CHL	O2D-CGD	5.14	1.45	1.33
25	2	601	CHL	CHC-C1C	5.13	1.48	1.35
18	5	611	CLA	CHB-C4A	5.12	1.38	1.34
25	2	606	CHL	O2D-CGD	5.12	1.45	1.33
25	5	606	CHL	O2D-CGD	5.11	1.45	1.33
25	2	601	CHL	O2D-CGD	5.09	1.45	1.33
25	6	601	CHL	CHC-C1C	5.06	1.47	1.35
25	5	608	CHL	O2D-CGD	5.05	1.45	1.33
25	2	607	CHL	CHC-C1C	5.03	1.47	1.35
25	2	607	CHL	C3B-C2B	4.99	1.47	1.40
25	2	616	CHL	CHC-C1C	4.97	1.47	1.35
25	5	615	CHL	CHC-C1C	4.96	1.47	1.35
25	5	606	CHL	CHC-C1C	4.90	1.47	1.35
25	5	608	CHL	CHC-C1C	4.89	1.47	1.35
25	6	601	CHL	C3B-C2B	4.88	1.47	1.40
25	6	607	CHL	C2C-C3C	4.87	1.47	1.36
25	6	607	CHL	CHD-C1D	4.87	1.47	1.38
25	2	616	CHL	C3B-C2B	4.86	1.47	1.40
25	2	606	CHL	CHC-C1C	4.86	1.47	1.35
25	5	607	CHL	C2C-C3C	4.83	1.47	1.36
25	6	607	CHL	C3D-C4D	-4.82	1.33	1.44
25	2	601	CHL	C2C-C3C	4.81	1.47	1.36
25	3	608	CHL	CHC-C1C	4.80	1.47	1.35
25	2	608	CHL	C3D-C4D	-4.79	1.33	1.44
25	6	601	CHL	C3D-C4D	-4.78	1.33	1.44
25	5	615	CHL	C3B-C2B	4.77	1.47	1.40
25	3	608	CHL	C3D-C4D	-4.77	1.33	1.44
25	5	607	CHL	C3D-C4D	-4.77	1.33	1.44
25	5	607	CHL	CHD-C1D	4.75	1.47	1.38
25	2	607	CHL	C3D-C4D	-4.75	1.33	1.44
25	2	601	CHL	C3D-C4D	-4.73	1.33	1.44
25	3	608	CHL	C3B-C2B	4.72	1.46	1.40
25	5	608	CHL	C3B-C2B	4.72	1.46	1.40
25	5	615	CHL	C3D-C4D	-4.70	1.33	1.44
25	2	607	CHL	C2C-C3C	4.68	1.46	1.36
25	5	608	CHL	C3D-C4D	-4.68	1.33	1.44
25	2	607	CHL	CHD-C1D	4.66	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	2	616	CHL	C3D-C4D	-4.65	1.33	1.44
25	6	607	CHL	O2D-CGD	4.65	1.45	1.30
25	2	608	CHL	O2D-CGD	4.64	1.45	1.30
25	6	601	CHL	C2C-C3C	4.64	1.46	1.36
25	5	606	CHL	C3D-C4D	-4.63	1.33	1.44
25	2	601	CHL	CHD-C1D	4.63	1.47	1.38
25	5	606	CHL	C2C-C3C	4.62	1.46	1.37
25	2	606	CHL	C3D-C4D	-4.61	1.33	1.44
25	3	608	CHL	O2D-CGD	4.60	1.45	1.30
25	3	608	CHL	C3C-C2C	4.59	1.46	1.36
25	2	608	CHL	C3B-C2B	4.58	1.46	1.40
25	2	608	CHL	C2C-C3C	4.57	1.46	1.36
25	5	615	CHL	C2C-C3C	4.57	1.46	1.36
25	2	606	CHL	C3B-C2B	4.56	1.46	1.40
25	6	601	CHL	O2D-CGD	4.56	1.45	1.30
25	2	616	CHL	C2C-C3C	4.55	1.46	1.36
25	2	608	CHL	CHD-C1D	4.55	1.47	1.38
25	2	606	CHL	C2C-C3C	4.54	1.46	1.36
25	6	601	CHL	O2A-CGA	4.52	1.45	1.30
25	6	601	CHL	CHD-C1D	4.52	1.47	1.38
25	2	616	CHL	CHD-C1D	4.51	1.47	1.38
25	2	601	CHL	O2A-CGA	4.48	1.45	1.30
25	5	608	CHL	C2C-C3C	4.48	1.46	1.36
25	2	616	CHL	O2A-CGA	4.47	1.45	1.30
25	2	606	CHL	O2A-CGA	4.45	1.45	1.30
25	5	606	CHL	CHD-C1D	4.44	1.47	1.38
25	5	615	CHL	CHD-C1D	4.42	1.47	1.38
25	3	608	CHL	CHD-C1D	4.37	1.46	1.38
25	5	607	CHL	CHD-C4C	4.30	1.49	1.39
25	2	606	CHL	CHD-C1D	4.28	1.46	1.38
25	5	608	CHL	O2A-CGA	4.25	1.45	1.33
25	6	607	CHL	CHD-C4C	4.23	1.48	1.39
18	K	201	CLA	C1D-ND	4.22	1.43	1.37
25	2	601	CHL	CHD-C4C	4.17	1.48	1.39
25	5	608	CHL	CHD-C1D	4.17	1.46	1.38
26	6	617	LUT	C28-C29	-4.16	1.37	1.45
26	2	619	LUT	C8-C9	-4.16	1.37	1.45
25	2	607	CHL	CHD-C4C	4.13	1.48	1.39
25	2	608	CHL	CHD-C4C	4.13	1.48	1.39
26	6	617	LUT	C8-C9	-4.13	1.37	1.45
26	5	619	LUT	C11-C10	4.11	1.56	1.43
26	3	618	LUT	C11-C10	4.10	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	2	619	LUT	C28-C29	-4.09	1.37	1.45
26	5	619	LUT	C28-C29	-4.09	1.37	1.45
25	6	601	CHL	CHD-C4C	4.09	1.48	1.39
26	2	619	LUT	C11-C10	4.08	1.56	1.43
26	3	618	LUT	C28-C29	-4.07	1.37	1.45
26	5	619	LUT	C8-C9	-4.07	1.37	1.45
25	2	616	CHL	CHD-C4C	4.05	1.48	1.39
26	3	618	LUT	C8-C9	-4.04	1.37	1.45
25	3	608	CHL	CHD-C4C	4.03	1.48	1.39
25	5	615	CHL	CHD-C4C	4.01	1.48	1.39
26	6	617	LUT	C11-C10	4.00	1.55	1.43
25	5	606	CHL	CHD-C4C	3.98	1.48	1.39
18	3	611	CLA	C1D-ND	3.95	1.42	1.37
18	6	616	CLA	C1D-ND	3.94	1.42	1.37
18	B	805	CLA	C1D-ND	3.92	1.42	1.37
25	2	606	CHL	CHD-C4C	3.90	1.48	1.39
18	A	801	CLA	C1D-ND	3.89	1.42	1.37
18	3	604	CLA	C1D-ND	3.89	1.42	1.37
18	5	610	CLA	C1D-ND	3.88	1.42	1.37
18	5	614	CLA	C1D-ND	3.87	1.42	1.37
18	6	609	CLA	C1D-ND	3.86	1.42	1.37
18	3	612	CLA	C1D-ND	3.86	1.42	1.37
18	3	613	CLA	C1D-ND	3.86	1.42	1.37
18	3	615	CLA	C1D-ND	3.85	1.42	1.37
18	K	206	CLA	C1D-ND	3.85	1.42	1.37
25	5	608	CHL	CHD-C4C	3.84	1.48	1.39
18	6	614	CLA	C1D-ND	3.84	1.42	1.37
18	2	612	CLA	C1D-ND	3.84	1.42	1.37
18	5	613	CLA	C1D-ND	3.84	1.42	1.37
18	A	825	CLA	C1D-ND	3.84	1.42	1.37
18	B	822	CLA	C1D-ND	3.83	1.42	1.37
18	K	204	CLA	C1D-ND	3.82	1.42	1.37
18	3	606	CLA	C1D-ND	3.81	1.42	1.37
18	B	830	CLA	C1D-ND	3.81	1.42	1.37
18	5	611	CLA	C1D-ND	3.81	1.42	1.37
18	3	602	CLA	C1D-ND	3.81	1.42	1.37
18	G	201	CLA	C1D-ND	3.81	1.42	1.37
18	5	609	CLA	C1D-ND	3.80	1.42	1.37
18	B	806	CLA	C1D-ND	3.80	1.42	1.37
18	A	816	CLA	C1D-ND	3.80	1.42	1.37
18	6	604	CLA	C1D-ND	3.80	1.42	1.37
18	A	821	CLA	C1D-ND	3.79	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	K	203	CLA	C1D-ND	3.79	1.42	1.37
18	6	603	CLA	C1D-ND	3.79	1.42	1.37
18	G	204	CLA	C1D-ND	3.79	1.42	1.37
18	B	821	CLA	C1D-ND	3.78	1.42	1.37
18	J	101	CLA	C1D-ND	3.78	1.42	1.37
18	5	612	CLA	C1D-ND	3.78	1.42	1.37
18	2	604	CLA	C1D-ND	3.78	1.42	1.37
18	3	610	CLA	C1D-ND	3.78	1.42	1.37
18	A	835	CLA	C1D-ND	3.78	1.42	1.37
21	5	621	BCR	C1-C6	-3.78	1.48	1.53
18	2	611	CLA	C1D-ND	3.78	1.42	1.37
18	5	604	CLA	C1D-ND	3.77	1.42	1.37
18	B	812	CLA	C1D-ND	3.77	1.42	1.37
18	6	606	CLA	C1D-ND	3.77	1.42	1.37
18	B	802	CLA	C1D-ND	3.77	1.42	1.37
18	6	610	CLA	C1D-ND	3.77	1.42	1.37
18	5	602	CLA	C1D-ND	3.77	1.42	1.37
18	A	845	CLA	C1D-ND	3.77	1.42	1.37
25	5	607	CHL	OBD-CAD	3.76	1.29	1.22
18	A	815	CLA	C1D-ND	3.76	1.42	1.37
18	G	203	CLA	C1D-ND	3.76	1.42	1.37
18	F	304	CLA	C1D-ND	3.76	1.42	1.37
18	3	603	CLA	C1D-ND	3.76	1.42	1.37
18	2	609	CLA	C1D-ND	3.76	1.42	1.37
18	B	827	CLA	C1D-ND	3.76	1.42	1.37
18	A	808	CLA	C1D-ND	3.76	1.42	1.37
18	B	817	CLA	C1D-ND	3.75	1.42	1.37
18	B	824	CLA	C1D-ND	3.75	1.42	1.37
18	A	832	CLA	C1D-ND	3.75	1.42	1.37
18	B	835	CLA	C1D-ND	3.75	1.42	1.37
18	L	302	CLA	C1D-ND	3.75	1.42	1.37
18	6	608	CLA	C1D-ND	3.75	1.42	1.37
18	B	837	CLA	C1D-ND	3.75	1.42	1.37
18	L	304	CLA	C1D-ND	3.74	1.42	1.37
18	A	843	CLA	C1D-ND	3.74	1.42	1.37
18	B	811	CLA	C1D-ND	3.74	1.42	1.37
18	A	837	CLA	C1D-ND	3.74	1.42	1.37
18	A	834	CLA	C1D-ND	3.74	1.42	1.37
18	B	834	CLA	C1D-ND	3.73	1.42	1.37
18	6	612	CLA	C1D-ND	3.73	1.42	1.37
18	B	829	CLA	C1D-ND	3.73	1.42	1.37
18	A	838	CLA	C1D-ND	3.73	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	826	CLA	C1D-ND	3.73	1.42	1.37
18	B	836	CLA	C1D-ND	3.73	1.42	1.37
18	2	613	CLA	C1D-ND	3.73	1.42	1.37
18	A	811	CLA	C1D-ND	3.73	1.42	1.37
18	A	828	CLA	C1D-ND	3.73	1.42	1.37
18	B	841	CLA	C1D-ND	3.73	1.42	1.37
18	A	806	CLA	C1D-ND	3.73	1.42	1.37
18	A	822	CLA	C1D-ND	3.72	1.42	1.37
18	A	841	CLA	C1D-ND	3.72	1.42	1.37
25	2	606	CHL	OBD-CAD	3.72	1.28	1.22
18	5	603	CLA	C1D-ND	3.72	1.42	1.37
18	L	303	CLA	C1D-ND	3.72	1.42	1.37
18	5	601	CLA	C1D-ND	3.72	1.42	1.37
18	A	831	CLA	C1D-ND	3.71	1.42	1.37
18	6	602	CLA	C1D-ND	3.71	1.42	1.37
18	A	804	CLA	C1D-ND	3.71	1.42	1.37
18	B	807	CLA	C1D-ND	3.71	1.42	1.37
18	3	609	CLA	C1D-ND	3.71	1.42	1.37
18	B	818	CLA	C1D-ND	3.71	1.42	1.37
18	2	614	CLA	C1D-ND	3.71	1.42	1.37
18	A	824	CLA	C1D-ND	3.71	1.42	1.37
18	B	816	CLA	C1D-ND	3.70	1.42	1.37
18	3	614	CLA	C1D-ND	3.70	1.42	1.37
18	A	814	CLA	C1D-ND	3.70	1.42	1.37
18	6	611	CLA	C1D-ND	3.70	1.42	1.37
18	3	617	CLA	C1D-ND	3.70	1.42	1.37
18	A	818	CLA	C1D-ND	3.70	1.42	1.37
25	5	615	CHL	OBD-CAD	3.70	1.28	1.22
18	A	812	CLA	C1D-ND	3.70	1.42	1.37
18	A	810	CLA	C1D-ND	3.70	1.42	1.37
18	A	817	CLA	C1D-ND	3.70	1.42	1.37
18	B	814	CLA	C1D-ND	3.69	1.42	1.37
18	A	833	CLA	C1D-ND	3.69	1.42	1.37
18	B	819	CLA	C1D-ND	3.69	1.42	1.37
18	B	838	CLA	C1D-ND	3.69	1.42	1.37
18	F	303	CLA	C1D-ND	3.69	1.42	1.37
18	F	305	CLA	C1D-ND	3.69	1.42	1.37
18	F	301	CLA	C1D-ND	3.69	1.42	1.37
18	B	839	CLA	C1D-ND	3.69	1.42	1.37
18	A	840	CLA	C1D-ND	3.68	1.42	1.37
18	2	603	CLA	C1D-ND	3.68	1.42	1.37
18	A	836	CLA	C1D-ND	3.68	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B	804	CLA	C1D-ND	3.68	1.42	1.37
18	B	803	CLA	C1D-ND	3.68	1.42	1.37
18	2	602	CLA	C1D-ND	3.68	1.42	1.37
18	B	831	CLA	C1D-ND	3.68	1.42	1.37
18	A	809	CLA	C1D-ND	3.67	1.42	1.37
18	3	607	CLA	C1D-ND	3.67	1.42	1.37
25	2	616	CHL	OBD-CAD	3.67	1.28	1.22
25	5	606	CHL	OBD-CAD	3.67	1.28	1.22
18	B	810	CLA	C1D-ND	3.67	1.42	1.37
18	A	854	CLA	C1D-ND	3.67	1.42	1.37
18	B	808	CLA	C1D-ND	3.67	1.42	1.37
18	B	833	CLA	C1D-ND	3.67	1.42	1.37
25	6	607	CHL	OBD-CAD	3.67	1.28	1.22
18	A	820	CLA	C1D-ND	3.67	1.42	1.37
18	B	820	CLA	C1D-ND	3.67	1.42	1.37
25	6	601	CHL	OBD-CAD	3.67	1.28	1.22
18	A	807	CLA	C1D-ND	3.66	1.42	1.37
25	2	601	CHL	OBD-CAD	3.66	1.28	1.22
18	A	839	CLA	C1D-ND	3.66	1.42	1.37
26	2	619	LUT	C26-C27	3.66	1.55	1.50
18	B	815	CLA	C1D-ND	3.65	1.42	1.37
18	A	813	CLA	C1D-ND	3.65	1.42	1.37
18	B	825	CLA	C1D-ND	3.65	1.42	1.37
18	6	613	CLA	C1D-ND	3.65	1.42	1.37
18	A	829	CLA	C1D-ND	3.64	1.42	1.37
18	A	803	CLA	C1D-ND	3.64	1.42	1.37
18	A	827	CLA	C1D-ND	3.64	1.42	1.37
18	B	826	CLA	C1D-ND	3.64	1.42	1.37
18	A	842	CLA	C1D-ND	3.63	1.42	1.37
18	B	823	CLA	C1D-ND	3.63	1.42	1.37
18	B	828	CLA	C1D-ND	3.62	1.42	1.37
18	A	822	CLA	CAB-C3B	-3.62	1.44	1.51
18	A	830	CLA	C1D-ND	3.62	1.42	1.37
18	A	823	CLA	C1D-ND	3.62	1.42	1.37
18	5	611	CLA	CAB-C3B	-3.62	1.44	1.51
18	B	813	CLA	C1D-ND	3.61	1.42	1.37
18	A	819	CLA	C1D-ND	3.61	1.42	1.37
18	B	840	CLA	C1D-ND	3.61	1.42	1.37
25	2	607	CHL	OBD-CAD	3.60	1.28	1.22
26	5	619	LUT	C26-C27	3.60	1.55	1.50
18	6	611	CLA	CAB-C3B	-3.59	1.44	1.51
18	K	204	CLA	CAB-C3B	-3.59	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	3	608	CHL	OBD-CAD	3.58	1.28	1.22
18	B	832	CLA	C1D-ND	3.58	1.42	1.37
21	A	852	BCR	C1-C6	-3.58	1.48	1.53
18	B	809	CLA	C1D-ND	3.58	1.42	1.37
18	A	805	CLA	C1D-ND	3.57	1.42	1.37
21	A	849	BCR	C1-C6	-3.57	1.48	1.53
18	6	609	CLA	CAB-C3B	-3.57	1.44	1.51
21	B	848	BCR	C1-C6	-3.56	1.48	1.53
18	B	811	CLA	CAB-C3B	-3.55	1.44	1.51
18	3	607	CLA	CAB-C3B	-3.55	1.44	1.51
18	6	616	CLA	CAB-C3B	-3.55	1.44	1.51
25	5	608	CHL	OBD-CAD	3.54	1.28	1.22
18	3	604	CLA	CAB-C3B	-3.54	1.44	1.51
25	2	608	CHL	OBD-CAD	3.53	1.28	1.22
21	B	843	BCR	C1-C6	-3.53	1.48	1.53
21	A	850	BCR	C1-C6	-3.53	1.48	1.53
21	A	851	BCR	C30-C25	-3.53	1.48	1.53
18	A	802	CLA	C1D-ND	3.52	1.42	1.37
18	6	614	CLA	CAB-C3B	-3.52	1.44	1.51
21	J	102	BCR	C30-C25	-3.51	1.48	1.53
25	2	608	CHL	C3A-C2A	-3.51	1.51	1.54
21	K	202	BCR	C1-C6	-3.51	1.48	1.53
21	B	847	BCR	C1-C6	-3.51	1.48	1.53
21	G	205	BCR	C1-C6	-3.51	1.48	1.53
18	2	610	CLA	C1D-ND	3.50	1.42	1.37
25	3	608	CHL	C3A-C2A	-3.49	1.51	1.54
21	B	801	BCR	C1-C6	-3.48	1.49	1.53
21	L	301	BCR	C1-C6	-3.45	1.49	1.53
21	B	845	BCR	C1-C6	-3.45	1.49	1.53
21	B	846	BCR	C1-C6	-3.44	1.49	1.53
21	2	621	BCR	C1-C6	-3.42	1.49	1.53
26	3	618	LUT	C26-C27	3.42	1.55	1.50
26	6	617	LUT	C26-C27	3.41	1.55	1.50
21	L	305	BCR	C1-C6	-3.41	1.49	1.53
26	5	619	LUT	C15-C14	3.36	1.53	1.43
21	B	843	BCR	C30-C25	-3.36	1.49	1.53
21	B	845	BCR	C30-C25	-3.34	1.49	1.53
21	K	207	BCR	C1-C6	-3.33	1.49	1.53
26	3	618	LUT	C15-C14	3.32	1.53	1.43
21	A	851	BCR	C1-C6	-3.31	1.49	1.53
21	B	846	BCR	C30-C25	-3.31	1.49	1.53
21	2	621	BCR	C30-C25	-3.30	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	J	103	BCR	C1-C6	-3.27	1.49	1.53
25	5	607	CHL	C3D-C2D	3.27	1.48	1.39
18	A	823	CLA	CHC-C1C	3.26	1.43	1.35
26	2	619	LUT	C15-C14	3.26	1.53	1.43
21	F	302	BCR	C1-C6	-3.26	1.49	1.53
21	A	856	BCR	C1-C6	-3.23	1.49	1.53
26	6	617	LUT	C15-C14	3.23	1.53	1.43
21	A	849	BCR	C30-C25	-3.22	1.49	1.53
21	A	848	BCR	C1-C6	-3.21	1.49	1.53
18	A	811	CLA	CHC-C1C	3.20	1.43	1.35
18	5	610	CLA	CHC-C1C	3.20	1.43	1.35
21	J	102	BCR	C1-C6	-3.20	1.49	1.53
18	B	836	CLA	CHC-C1C	3.19	1.43	1.35
18	6	611	CLA	CHC-C1C	3.19	1.43	1.35
18	A	833	CLA	CHC-C1C	3.19	1.43	1.35
18	A	827	CLA	CHC-C1C	3.19	1.43	1.35
18	2	611	CLA	CHC-C1C	3.18	1.43	1.35
18	5	609	CLA	CHC-C1C	3.18	1.43	1.35
18	3	617	CLA	CHC-C1C	3.18	1.43	1.35
21	3	620	BCR	C1-C6	-3.17	1.49	1.53
18	A	812	CLA	CHC-C1C	3.17	1.43	1.35
21	I	101	BCR	C1-C6	-3.17	1.49	1.53
18	G	204	CLA	CHC-C1C	3.16	1.43	1.35
18	F	301	CLA	CHC-C1C	3.16	1.43	1.35
18	3	610	CLA	CHC-C1C	3.16	1.43	1.35
25	6	607	CHL	C3D-C2D	3.16	1.47	1.39
18	B	804	CLA	CHC-C1C	3.16	1.43	1.35
18	A	820	CLA	CHC-C1C	3.15	1.43	1.35
18	6	614	CLA	CHC-C1C	3.15	1.43	1.35
18	A	808	CLA	CHC-C1C	3.15	1.43	1.35
18	F	303	CLA	CHC-C1C	3.15	1.43	1.35
18	A	836	CLA	CHC-C1C	3.15	1.43	1.35
26	5	619	LUT	C7-C6	3.15	1.56	1.45
18	5	602	CLA	CHC-C1C	3.15	1.43	1.35
18	A	805	CLA	CHC-C1C	3.15	1.43	1.35
18	B	824	CLA	CHC-C1C	3.15	1.43	1.35
18	5	614	CLA	CHC-C1C	3.15	1.43	1.35
18	A	825	CLA	CHC-C1C	3.15	1.43	1.35
18	A	854	CLA	CHC-C1C	3.15	1.43	1.35
18	A	802	CLA	CHC-C1C	3.14	1.43	1.35
18	5	611	CLA	CHC-C1C	3.14	1.43	1.35
18	6	616	CLA	CHC-C1C	3.14	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	L	302	CLA	CHC-C1C	3.14	1.43	1.35
25	2	601	CHL	C3D-C2D	3.14	1.47	1.39
18	B	806	CLA	CHC-C1C	3.14	1.43	1.35
18	B	839	CLA	CHC-C1C	3.14	1.43	1.35
21	A	852	BCR	C30-C25	-3.14	1.49	1.53
18	A	822	CLA	CHC-C1C	3.14	1.43	1.35
18	3	607	CLA	CHC-C1C	3.14	1.43	1.35
18	5	612	CLA	CHC-C1C	3.14	1.43	1.35
18	5	604	CLA	CHC-C1C	3.14	1.43	1.35
18	A	806	CLA	CHC-C1C	3.14	1.43	1.35
18	A	828	CLA	CHC-C1C	3.14	1.43	1.35
18	B	803	CLA	C4D-ND	-3.13	1.33	1.37
18	A	827	CLA	C4D-ND	-3.13	1.33	1.37
18	A	809	CLA	CHC-C1C	3.13	1.43	1.35
18	2	602	CLA	CHC-C1C	3.13	1.43	1.35
18	2	604	CLA	CHC-C1C	3.13	1.43	1.35
18	2	612	CLA	CHC-C1C	3.13	1.43	1.35
18	B	811	CLA	CHC-C1C	3.13	1.43	1.35
18	A	829	CLA	CHC-C1C	3.13	1.43	1.35
18	B	816	CLA	CHC-C1C	3.13	1.43	1.35
18	A	824	CLA	CHC-C1C	3.13	1.43	1.35
18	A	807	CLA	CHC-C1C	3.12	1.43	1.35
18	B	814	CLA	CHC-C1C	3.12	1.43	1.35
18	B	837	CLA	CHC-C1C	3.12	1.43	1.35
18	B	823	CLA	CHC-C1C	3.12	1.43	1.35
18	K	203	CLA	CHC-C1C	3.12	1.43	1.35
18	2	614	CLA	CHC-C1C	3.12	1.43	1.35
18	B	830	CLA	CHC-C1C	3.12	1.43	1.35
18	B	834	CLA	CHC-C1C	3.12	1.43	1.35
18	3	612	CLA	CHC-C1C	3.12	1.43	1.35
18	B	833	CLA	CHC-C1C	3.12	1.43	1.35
18	B	820	CLA	CHC-C1C	3.12	1.43	1.35
18	2	610	CLA	CHC-C1C	3.12	1.43	1.35
18	3	609	CLA	CHC-C1C	3.12	1.43	1.35
18	6	602	CLA	CHC-C1C	3.12	1.43	1.35
18	A	832	CLA	CHC-C1C	3.11	1.43	1.35
18	6	604	CLA	CHC-C1C	3.11	1.42	1.35
18	A	806	CLA	C4D-ND	-3.11	1.33	1.37
18	5	601	CLA	CHC-C1C	3.11	1.42	1.35
18	A	819	CLA	CHC-C1C	3.11	1.42	1.35
18	A	817	CLA	CHC-C1C	3.11	1.42	1.35
18	2	609	CLA	CHC-C1C	3.11	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	6	613	CLA	CHC-C1C	3.11	1.42	1.35
18	A	841	CLA	CHC-C1C	3.11	1.42	1.35
18	L	304	CLA	CHC-C1C	3.11	1.42	1.35
18	B	832	CLA	C4D-ND	-3.11	1.33	1.37
21	K	207	BCR	C30-C25	-3.11	1.49	1.53
18	B	812	CLA	CHC-C1C	3.10	1.42	1.35
18	6	612	CLA	CHC-C1C	3.10	1.42	1.35
18	A	821	CLA	CHC-C1C	3.10	1.42	1.35
18	5	603	CLA	C4D-ND	-3.10	1.33	1.37
26	3	618	LUT	C7-C6	3.10	1.56	1.45
18	B	832	CLA	CHC-C1C	3.10	1.42	1.35
18	B	838	CLA	CHC-C1C	3.10	1.42	1.35
18	A	815	CLA	CHC-C1C	3.10	1.42	1.35
18	B	822	CLA	CHC-C1C	3.10	1.42	1.35
18	6	610	CLA	CHC-C1C	3.10	1.42	1.35
18	A	828	CLA	C4D-ND	-3.10	1.33	1.37
18	3	615	CLA	CHC-C1C	3.10	1.42	1.35
18	B	815	CLA	CHC-C1C	3.10	1.42	1.35
18	2	613	CLA	CHC-C1C	3.10	1.42	1.35
18	B	828	CLA	CHC-C1C	3.10	1.42	1.35
18	5	611	CLA	C4D-ND	-3.10	1.33	1.37
18	B	840	CLA	CHC-C1C	3.10	1.42	1.35
18	B	841	CLA	CHC-C1C	3.10	1.42	1.35
18	6	608	CLA	CHC-C1C	3.10	1.42	1.35
18	B	826	CLA	C4D-ND	-3.10	1.33	1.37
18	F	304	CLA	CHC-C1C	3.09	1.42	1.35
18	B	831	CLA	CHC-C1C	3.09	1.42	1.35
18	B	813	CLA	CHC-C1C	3.09	1.42	1.35
18	A	818	CLA	CHC-C1C	3.09	1.42	1.35
18	6	609	CLA	CHC-C1C	3.09	1.42	1.35
18	B	827	CLA	CHC-C1C	3.09	1.42	1.35
18	J	101	CLA	CHC-C1C	3.09	1.42	1.35
18	K	206	CLA	CHC-C1C	3.09	1.42	1.35
18	A	816	CLA	CHC-C1C	3.09	1.42	1.35
18	B	803	CLA	CHC-C1C	3.09	1.42	1.35
18	A	838	CLA	C4D-ND	-3.09	1.33	1.37
18	A	838	CLA	CHC-C1C	3.09	1.42	1.35
18	A	839	CLA	CHC-C1C	3.09	1.42	1.35
18	L	303	CLA	CHC-C1C	3.09	1.42	1.35
18	3	604	CLA	CHC-C1C	3.09	1.42	1.35
18	A	814	CLA	CHC-C1C	3.09	1.42	1.35
18	2	603	CLA	C4D-ND	-3.08	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	5	613	CLA	CHC-C1C	3.08	1.42	1.35
18	A	804	CLA	CHC-C1C	3.08	1.42	1.35
18	A	842	CLA	CHC-C1C	3.08	1.42	1.35
18	B	808	CLA	CHC-C1C	3.08	1.42	1.35
25	2	607	CHL	C1D-C2D	3.08	1.51	1.45
18	G	201	CLA	CHC-C1C	3.08	1.42	1.35
18	3	614	CLA	CHC-C1C	3.08	1.42	1.35
18	B	802	CLA	CHC-C1C	3.08	1.42	1.35
18	L	303	CLA	C4D-ND	-3.08	1.33	1.37
18	3	602	CLA	CHC-C1C	3.08	1.42	1.35
18	3	606	CLA	CHC-C1C	3.08	1.42	1.35
18	B	823	CLA	C4D-ND	-3.08	1.33	1.37
18	A	835	CLA	CHC-C1C	3.08	1.42	1.35
18	A	810	CLA	CHC-C1C	3.07	1.42	1.35
18	B	825	CLA	CHC-C1C	3.07	1.42	1.35
18	A	813	CLA	CHC-C1C	3.07	1.42	1.35
21	A	856	BCR	C30-C25	-3.07	1.49	1.53
18	B	819	CLA	C4D-ND	-3.07	1.33	1.37
18	A	801	CLA	CHC-C1C	3.07	1.42	1.35
25	5	607	CHL	C1D-C2D	3.07	1.51	1.45
18	B	838	CLA	C4D-ND	-3.07	1.33	1.37
18	B	825	CLA	C4D-ND	-3.07	1.33	1.37
18	A	845	CLA	CHC-C1C	3.07	1.42	1.35
18	K	204	CLA	CHC-C1C	3.07	1.42	1.35
18	3	611	CLA	CHC-C1C	3.07	1.42	1.35
18	A	803	CLA	CHC-C1C	3.07	1.42	1.35
18	A	840	CLA	CHC-C1C	3.07	1.42	1.35
18	A	826	CLA	CHC-C1C	3.07	1.42	1.35
18	B	805	CLA	CHC-C1C	3.07	1.42	1.35
18	6	603	CLA	CHC-C1C	3.07	1.42	1.35
26	6	617	LUT	C7-C6	3.07	1.56	1.45
18	6	606	CLA	CHC-C1C	3.06	1.42	1.35
21	L	301	BCR	C30-C25	-3.06	1.49	1.53
18	B	836	CLA	C4D-ND	-3.06	1.33	1.37
18	B	835	CLA	CHC-C1C	3.06	1.42	1.35
25	2	607	CHL	C3D-C2D	3.06	1.47	1.39
18	A	839	CLA	C4D-ND	-3.06	1.33	1.37
21	3	622	BCR	C1-C6	-3.06	1.49	1.53
18	B	807	CLA	CHC-C1C	3.06	1.42	1.35
18	3	613	CLA	CHC-C1C	3.06	1.42	1.35
26	3	618	LUT	C23-C24	3.06	1.54	1.50
18	B	806	CLA	C4D-ND	-3.06	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	837	CLA	CHC-C1C	3.06	1.42	1.35
18	A	830	CLA	CHC-C1C	3.06	1.42	1.35
18	B	819	CLA	CHC-C1C	3.06	1.42	1.35
18	F	305	CLA	CHC-C1C	3.06	1.42	1.35
18	B	810	CLA	CHC-C1C	3.06	1.42	1.35
18	B	826	CLA	CHC-C1C	3.06	1.42	1.35
18	6	602	CLA	C4D-ND	-3.06	1.33	1.37
18	A	814	CLA	C4D-ND	-3.05	1.33	1.37
18	2	603	CLA	CHC-C1C	3.05	1.42	1.35
18	B	818	CLA	CHC-C1C	3.05	1.42	1.35
25	2	608	CHL	C1D-C2D	3.05	1.51	1.45
18	B	817	CLA	CHC-C1C	3.05	1.42	1.35
21	B	801	BCR	C30-C25	-3.05	1.49	1.53
18	3	603	CLA	CHC-C1C	3.05	1.42	1.35
18	A	819	CLA	C4D-ND	-3.05	1.33	1.37
18	A	803	CLA	C4D-ND	-3.05	1.33	1.37
21	B	844	BCR	C1-C6	-3.04	1.49	1.53
18	G	203	CLA	CHC-C1C	3.04	1.42	1.35
18	B	829	CLA	CHC-C1C	3.04	1.42	1.35
18	B	821	CLA	CHC-C1C	3.04	1.42	1.35
18	A	831	CLA	CHC-C1C	3.04	1.42	1.35
18	A	843	CLA	CHC-C1C	3.04	1.42	1.35
25	2	601	CHL	C1D-C2D	3.04	1.51	1.45
18	B	839	CLA	C4D-ND	-3.04	1.33	1.37
18	5	603	CLA	CHC-C1C	3.04	1.42	1.35
21	A	850	BCR	C30-C25	-3.04	1.49	1.53
18	B	827	CLA	C4D-ND	-3.04	1.33	1.37
18	3	602	CLA	C4D-ND	-3.04	1.33	1.37
18	A	833	CLA	C4D-ND	-3.04	1.33	1.37
18	A	830	CLA	C4D-ND	-3.04	1.33	1.37
25	6	601	CHL	C3D-C2D	3.04	1.47	1.39
21	B	844	BCR	C30-C25	-3.03	1.49	1.53
18	K	204	CLA	C4D-ND	-3.03	1.33	1.37
18	B	813	CLA	C4D-ND	-3.03	1.33	1.37
18	B	814	CLA	C4D-ND	-3.03	1.33	1.37
18	A	834	CLA	CHC-C1C	3.03	1.42	1.35
18	A	807	CLA	C4D-ND	-3.02	1.33	1.37
18	B	818	CLA	C4D-ND	-3.02	1.33	1.37
18	2	614	CLA	C4D-ND	-3.02	1.33	1.37
25	5	615	CHL	C1D-C2D	3.02	1.51	1.45
25	6	607	CHL	C1D-C2D	3.02	1.51	1.45
18	B	817	CLA	C4D-ND	-3.02	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	813	CLA	C4D-ND	-3.01	1.33	1.37
18	2	602	CLA	C4D-ND	-3.01	1.33	1.37
18	A	842	CLA	C4D-ND	-3.01	1.33	1.37
18	2	613	CLA	C4D-ND	-3.01	1.33	1.37
18	3	606	CLA	C4D-ND	-3.01	1.33	1.37
18	A	808	CLA	C4D-ND	-3.01	1.33	1.37
18	5	601	CLA	C4D-ND	-3.01	1.33	1.37
18	2	612	CLA	C4D-ND	-3.01	1.33	1.37
18	A	804	CLA	C4D-ND	-3.01	1.33	1.37
25	2	616	CHL	C3D-C2D	3.01	1.47	1.39
18	B	809	CLA	CHC-C1C	3.00	1.42	1.35
18	A	812	CLA	C4D-ND	-3.00	1.33	1.37
18	G	201	CLA	C4D-ND	-3.00	1.33	1.37
18	G	203	CLA	C4D-ND	-3.00	1.33	1.37
18	F	304	CLA	C4D-ND	-3.00	1.33	1.37
18	A	837	CLA	C4D-ND	-3.00	1.33	1.37
18	2	609	CLA	C4D-ND	-2.99	1.33	1.37
18	3	615	CLA	C4D-ND	-2.99	1.33	1.37
18	A	836	CLA	C4D-ND	-2.99	1.33	1.37
18	B	841	CLA	C4D-ND	-2.99	1.33	1.37
18	A	834	CLA	C4D-ND	-2.99	1.33	1.37
18	A	817	CLA	C4D-ND	-2.99	1.33	1.37
18	A	831	CLA	C4D-ND	-2.99	1.33	1.37
18	A	815	CLA	C4D-ND	-2.99	1.33	1.37
18	A	820	CLA	C4D-ND	-2.99	1.33	1.37
18	B	830	CLA	C4D-ND	-2.99	1.33	1.37
18	B	807	CLA	C4D-ND	-2.98	1.33	1.37
25	3	608	CHL	C1D-C2D	2.98	1.51	1.45
18	A	801	CLA	C4D-ND	-2.98	1.33	1.37
25	6	601	CHL	C1D-C2D	2.98	1.51	1.45
21	3	622	BCR	C30-C25	-2.98	1.49	1.53
25	5	606	CHL	C1D-C2D	2.98	1.51	1.45
26	2	619	LUT	C7-C6	2.98	1.55	1.45
18	B	833	CLA	C4D-ND	-2.98	1.33	1.37
25	2	608	CHL	C3D-C2D	2.97	1.47	1.39
25	5	615	CHL	C3D-C2D	2.97	1.47	1.39
18	6	604	CLA	C4D-ND	-2.97	1.33	1.37
18	B	835	CLA	C4D-ND	-2.97	1.33	1.37
18	2	611	CLA	C4D-ND	-2.97	1.33	1.37
18	B	831	CLA	C4D-ND	-2.97	1.33	1.37
18	A	822	CLA	C4D-ND	-2.97	1.33	1.37
21	F	302	BCR	C30-C25	-2.97	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	6	607	CHL	C3A-C2A	-2.97	1.51	1.54
21	I	101	BCR	C30-C25	-2.97	1.49	1.53
18	B	810	CLA	C4D-ND	-2.97	1.33	1.37
18	A	802	CLA	C4D-ND	-2.97	1.33	1.37
18	B	805	CLA	C4D-ND	-2.97	1.33	1.37
18	5	610	CLA	C4D-ND	-2.97	1.33	1.37
18	B	812	CLA	C4D-ND	-2.97	1.33	1.37
18	B	828	CLA	C4D-ND	-2.97	1.33	1.37
18	A	829	CLA	C4D-ND	-2.97	1.33	1.37
18	A	811	CLA	C4D-ND	-2.96	1.33	1.37
18	B	816	CLA	C4D-ND	-2.96	1.33	1.37
18	A	810	CLA	C4D-ND	-2.96	1.33	1.37
18	6	609	CLA	C4D-ND	-2.96	1.33	1.37
18	6	603	CLA	C4D-ND	-2.96	1.33	1.37
18	A	805	CLA	C4D-ND	-2.96	1.33	1.37
18	5	602	CLA	C4D-ND	-2.95	1.33	1.37
18	3	604	CLA	C4D-ND	-2.95	1.33	1.37
21	B	847	BCR	C30-C25	-2.95	1.49	1.53
18	A	840	CLA	C4D-ND	-2.95	1.33	1.37
18	A	826	CLA	C4D-ND	-2.95	1.33	1.37
18	J	101	CLA	C4D-ND	-2.95	1.33	1.37
25	2	616	CHL	C1D-C2D	2.95	1.51	1.45
18	B	840	CLA	C4D-ND	-2.94	1.33	1.37
25	5	606	CHL	C3D-C2D	2.94	1.47	1.39
18	6	613	CLA	C4D-ND	-2.94	1.33	1.37
18	B	802	CLA	C4D-ND	-2.94	1.33	1.37
18	B	837	CLA	C4D-ND	-2.94	1.33	1.37
18	G	204	CLA	C4D-ND	-2.94	1.33	1.37
18	B	821	CLA	C4D-ND	-2.94	1.33	1.37
18	3	614	CLA	C4D-ND	-2.93	1.33	1.37
18	A	841	CLA	C4D-ND	-2.93	1.33	1.37
18	A	843	CLA	C4D-ND	-2.93	1.33	1.37
18	F	301	CLA	C4D-ND	-2.93	1.33	1.37
18	3	610	CLA	C4D-ND	-2.93	1.33	1.37
18	A	823	CLA	C4D-ND	-2.93	1.33	1.37
26	3	618	LUT	C18-C5	2.93	1.55	1.50
18	L	304	CLA	C4D-ND	-2.93	1.33	1.37
18	6	610	CLA	C4D-ND	-2.92	1.33	1.37
18	A	818	CLA	C4D-ND	-2.92	1.33	1.37
18	B	834	CLA	C4D-ND	-2.92	1.33	1.37
18	3	607	CLA	C4D-ND	-2.92	1.33	1.37
26	5	619	LUT	C18-C5	2.92	1.55	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	2	606	CHL	C1D-C2D	2.92	1.51	1.45
18	A	809	CLA	C4D-ND	-2.92	1.33	1.37
18	B	820	CLA	C4D-ND	-2.92	1.33	1.37
18	3	613	CLA	C4D-ND	-2.92	1.33	1.37
18	F	303	CLA	C4D-ND	-2.91	1.33	1.37
18	A	816	CLA	C4D-ND	-2.91	1.33	1.37
18	B	811	CLA	C4D-ND	-2.91	1.33	1.37
18	6	608	CLA	C4D-ND	-2.91	1.33	1.37
25	5	607	CHL	MG-NA	-2.91	1.99	2.06
18	B	815	CLA	C4D-ND	-2.91	1.33	1.37
18	3	612	CLA	C4D-ND	-2.91	1.33	1.37
25	3	608	CHL	C3D-C2D	2.91	1.47	1.39
18	A	821	CLA	C4D-ND	-2.91	1.33	1.37
18	A	832	CLA	C4D-ND	-2.91	1.33	1.37
18	6	611	CLA	C4D-ND	-2.91	1.33	1.37
18	A	825	CLA	C4D-ND	-2.90	1.33	1.37
18	B	809	CLA	C4D-ND	-2.90	1.33	1.37
18	F	305	CLA	C4D-ND	-2.90	1.33	1.37
18	K	203	CLA	C4D-ND	-2.90	1.33	1.37
18	B	808	CLA	C4D-ND	-2.90	1.33	1.37
18	6	612	CLA	C4D-ND	-2.90	1.33	1.37
18	5	612	CLA	C4D-ND	-2.90	1.33	1.37
18	L	302	CLA	C4D-ND	-2.89	1.33	1.37
18	5	604	CLA	C4D-ND	-2.89	1.33	1.37
18	B	822	CLA	C4D-ND	-2.89	1.33	1.37
18	3	603	CLA	C4D-ND	-2.89	1.33	1.37
18	A	845	CLA	C4D-ND	-2.89	1.33	1.37
18	3	611	CLA	C4D-ND	-2.88	1.33	1.37
21	G	205	BCR	C30-C25	-2.88	1.49	1.53
18	K	201	CLA	CHC-C1C	2.88	1.42	1.35
18	B	829	CLA	CMB-C2B	-2.88	1.45	1.51
18	B	804	CLA	C4D-ND	-2.87	1.33	1.37
18	K	206	CLA	C4D-ND	-2.87	1.33	1.37
18	5	614	CLA	C4D-ND	-2.87	1.33	1.37
18	5	609	CLA	C4D-ND	-2.87	1.33	1.37
18	3	617	CLA	C4D-ND	-2.86	1.33	1.37
21	K	202	BCR	C30-C25	-2.86	1.49	1.53
18	6	614	CLA	C4D-ND	-2.86	1.33	1.37
18	B	829	CLA	C4D-ND	-2.86	1.33	1.37
18	A	854	CLA	C4D-ND	-2.85	1.33	1.37
18	B	824	CLA	C4D-ND	-2.85	1.33	1.37
21	5	621	BCR	C30-C25	-2.85	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	2	619	LUT	C18-C5	2.85	1.55	1.50
21	3	620	BCR	C30-C25	-2.85	1.49	1.53
18	A	835	CLA	C4D-ND	-2.85	1.33	1.37
25	5	608	CHL	C3D-C2D	2.85	1.46	1.39
26	6	617	LUT	C23-C24	2.84	1.54	1.50
25	2	606	CHL	C3D-C2D	2.83	1.46	1.39
18	5	613	CLA	C4D-ND	-2.83	1.33	1.37
26	6	617	LUT	C18-C5	2.82	1.55	1.50
18	3	609	CLA	C4D-ND	-2.81	1.33	1.37
18	A	824	CLA	C4D-ND	-2.80	1.33	1.37
18	6	616	CLA	C4D-ND	-2.79	1.33	1.37
25	6	607	CHL	MG-NA	-2.79	1.99	2.06
21	A	848	BCR	C30-C25	-2.79	1.49	1.53
26	5	619	LUT	C31-C30	2.75	1.52	1.43
18	2	604	CLA	C4D-ND	-2.75	1.33	1.37
26	3	618	LUT	C31-C30	2.75	1.52	1.43
26	5	619	LUT	C23-C24	2.73	1.54	1.50
26	2	619	LUT	C23-C24	2.73	1.54	1.50
26	5	619	LUT	C19-C9	2.72	1.56	1.50
26	6	617	LUT	C19-C9	2.71	1.56	1.50
18	2	610	CLA	C4D-ND	-2.70	1.34	1.37
26	2	619	LUT	C19-C9	2.70	1.56	1.50
25	2	601	CHL	MG-NA	-2.70	1.99	2.06
26	3	618	LUT	C19-C9	2.69	1.56	1.50
21	B	848	BCR	C30-C25	-2.69	1.50	1.53
21	J	103	BCR	C30-C25	-2.69	1.50	1.53
18	B	833	CLA	CMB-C2B	-2.69	1.46	1.51
26	2	619	LUT	C31-C30	2.68	1.51	1.43
18	A	831	CLA	CMB-C2B	-2.68	1.46	1.51
25	2	607	CHL	MG-NA	-2.66	2.00	2.06
21	L	305	BCR	C30-C25	-2.66	1.50	1.53
25	5	608	CHL	C1D-C2D	2.66	1.50	1.45
26	6	617	LUT	C31-C30	2.65	1.51	1.43
18	B	819	CLA	CMB-C2B	-2.65	1.46	1.51
18	B	818	CLA	CMB-C2B	-2.64	1.46	1.51
18	6	606	CLA	C4D-ND	-2.62	1.34	1.37
18	A	843	CLA	CMB-C2B	-2.62	1.46	1.51
18	B	834	CLA	CMB-C2B	-2.59	1.46	1.51
18	A	822	CLA	CMB-C2B	-2.59	1.46	1.51
25	5	607	CHL	C4B-CHC	2.59	1.48	1.41
25	6	607	CHL	C4B-CHC	2.57	1.48	1.41
18	A	820	CLA	CMB-C2B	-2.57	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	5	602	CLA	CMB-C2B	-2.56	1.46	1.51
18	B	828	CLA	CMB-C2B	-2.56	1.46	1.51
18	A	802	CLA	CMB-C2B	-2.56	1.46	1.51
18	6	604	CLA	CMB-C2B	-2.56	1.46	1.51
18	3	606	CLA	CMB-C2B	-2.55	1.46	1.51
18	B	824	CLA	CMB-C2B	-2.55	1.46	1.51
18	B	840	CLA	CMB-C2B	-2.55	1.46	1.51
18	B	837	CLA	CMB-C2B	-2.55	1.46	1.51
18	K	201	CLA	C4D-ND	-2.55	1.34	1.37
18	B	808	CLA	CMB-C2B	-2.54	1.46	1.51
25	2	607	CHL	C4B-CHC	2.53	1.48	1.41
18	B	830	CLA	CMB-C2B	-2.53	1.46	1.51
18	A	836	CLA	CMB-C2B	-2.53	1.46	1.51
18	B	809	CLA	CMB-C2B	-2.53	1.46	1.51
18	B	839	CLA	CMB-C2B	-2.53	1.46	1.51
18	B	817	CLA	CMB-C2B	-2.52	1.46	1.51
23	B	850	DGD	O2G-C2G	-2.52	1.40	1.46
18	2	613	CLA	CMB-C2B	-2.52	1.46	1.51
18	2	612	CLA	CMB-C2B	-2.52	1.46	1.51
18	3	603	CLA	CMB-C2B	-2.52	1.46	1.51
18	A	810	CLA	CMB-C2B	-2.51	1.46	1.51
18	5	612	CLA	CMB-C2B	-2.51	1.46	1.51
18	B	807	CLA	CMB-C2B	-2.51	1.46	1.51
18	A	840	CLA	CMB-C2B	-2.51	1.46	1.51
18	A	845	CLA	CMB-C2B	-2.51	1.46	1.51
18	5	611	CLA	CMB-C2B	-2.51	1.46	1.51
18	A	830	CLA	CMB-C2B	-2.51	1.46	1.51
18	B	822	CLA	CMB-C2B	-2.50	1.46	1.51
18	6	611	CLA	CMB-C2B	-2.50	1.46	1.51
18	A	837	CLA	CMB-C2B	-2.50	1.46	1.51
18	A	815	CLA	CMB-C2B	-2.50	1.46	1.51
18	B	831	CLA	CMB-C2B	-2.50	1.46	1.51
18	A	838	CLA	CMB-C2B	-2.50	1.46	1.51
18	5	603	CLA	CMB-C2B	-2.50	1.46	1.51
18	A	807	CLA	CMB-C2B	-2.50	1.46	1.51
18	F	303	CLA	CMB-C2B	-2.50	1.46	1.51
18	G	204	CLA	CMB-C2B	-2.50	1.46	1.51
18	B	805	CLA	CMB-C2B	-2.49	1.46	1.51
18	3	604	CLA	CMB-C2B	-2.49	1.46	1.51
18	A	801	CLA	CMB-C2B	-2.49	1.46	1.51
18	2	609	CLA	CMB-C2B	-2.49	1.46	1.51
25	6	601	CHL	MG-NA	-2.49	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	G	203	CLA	CMB-C2B	-2.49	1.46	1.51
18	2	603	CLA	CMB-C2B	-2.49	1.46	1.51
18	3	609	CLA	CMB-C2B	-2.49	1.46	1.51
18	A	825	CLA	CMB-C2B	-2.49	1.46	1.51
18	B	841	CLA	CMB-C2B	-2.49	1.46	1.51
18	A	834	CLA	CMB-C2B	-2.49	1.46	1.51
18	B	821	CLA	CMB-C2B	-2.49	1.46	1.51
18	A	812	CLA	CMB-C2B	-2.48	1.46	1.51
18	A	811	CLA	CMB-C2B	-2.48	1.46	1.51
18	B	811	CLA	CMB-C2B	-2.48	1.46	1.51
18	B	814	CLA	CMB-C2B	-2.48	1.46	1.51
18	A	819	CLA	CMB-C2B	-2.48	1.46	1.51
18	A	821	CLA	CMB-C2B	-2.48	1.46	1.51
18	B	826	CLA	CMB-C2B	-2.48	1.46	1.51
18	A	824	CLA	CMB-C2B	-2.48	1.46	1.51
18	6	602	CLA	CMB-C2B	-2.48	1.46	1.51
23	B	850	DGD	O1G-C1G	-2.48	1.39	1.45
18	3	607	CLA	CMB-C2B	-2.48	1.46	1.51
18	K	206	CLA	CMB-C2B	-2.48	1.46	1.51
18	6	609	CLA	CMB-C2B	-2.48	1.46	1.51
18	B	815	CLA	CMB-C2B	-2.47	1.46	1.51
18	A	841	CLA	CMB-C2B	-2.47	1.46	1.51
18	B	812	CLA	CMB-C2B	-2.47	1.46	1.51
18	6	612	CLA	CMB-C2B	-2.47	1.46	1.51
18	B	825	CLA	CMB-C2B	-2.47	1.46	1.51
18	5	613	CLA	CMB-C2B	-2.47	1.46	1.51
18	A	835	CLA	CMB-C2B	-2.47	1.46	1.51
18	B	835	CLA	CMB-C2B	-2.47	1.46	1.51
18	6	610	CLA	CMB-C2B	-2.47	1.46	1.51
18	K	203	CLA	CMB-C2B	-2.47	1.46	1.51
18	2	614	CLA	CMB-C2B	-2.47	1.46	1.51
18	A	828	CLA	CMB-C2B	-2.47	1.46	1.51
18	3	602	CLA	CMB-C2B	-2.47	1.46	1.51
18	5	610	CLA	CMB-C2B	-2.47	1.46	1.51
18	5	601	CLA	CMB-C2B	-2.46	1.46	1.51
18	A	832	CLA	CMB-C2B	-2.46	1.46	1.51
18	A	833	CLA	CMB-C2B	-2.46	1.46	1.51
18	B	816	CLA	CMB-C2B	-2.46	1.46	1.51
18	6	608	CLA	CMB-C2B	-2.46	1.46	1.51
18	A	842	CLA	CMB-C2B	-2.46	1.46	1.51
18	2	602	CLA	CMB-C2B	-2.46	1.46	1.51
18	6	613	CLA	CMB-C2B	-2.46	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	6	606	CLA	CMB-C2B	-2.46	1.46	1.51
18	A	829	CLA	CMB-C2B	-2.46	1.46	1.51
18	3	614	CLA	CMB-C2B	-2.46	1.46	1.51
18	3	615	CLA	CMB-C2B	-2.45	1.46	1.51
26	6	617	LUT	C39-C29	2.45	1.55	1.50
18	B	802	CLA	CMB-C2B	-2.45	1.46	1.51
18	F	301	CLA	CMB-C2B	-2.45	1.46	1.51
18	A	809	CLA	CMB-C2B	-2.45	1.46	1.51
18	B	836	CLA	CMB-C2B	-2.45	1.46	1.51
18	A	808	CLA	CMB-C2B	-2.45	1.46	1.51
18	A	839	CLA	CMB-C2B	-2.45	1.46	1.51
18	K	204	CLA	CMB-C2B	-2.45	1.46	1.51
18	A	826	CLA	CMB-C2B	-2.44	1.46	1.51
25	6	607	CHL	C4C-C3C	2.44	1.49	1.45
18	B	804	CLA	CMB-C2B	-2.44	1.46	1.51
18	3	612	CLA	CMB-C2B	-2.44	1.46	1.51
18	A	818	CLA	CMB-C2B	-2.44	1.46	1.51
18	B	810	CLA	CMB-C2B	-2.44	1.46	1.51
18	A	803	CLA	CMB-C2B	-2.44	1.46	1.51
27	3	619	XAT	O4-C5	-2.44	1.42	1.46
18	B	832	CLA	CMB-C2B	-2.44	1.46	1.51
18	A	813	CLA	CMB-C2B	-2.44	1.46	1.51
18	B	803	CLA	CMB-C2B	-2.44	1.46	1.51
18	B	820	CLA	CMB-C2B	-2.44	1.46	1.51
18	L	303	CLA	CMB-C2B	-2.43	1.46	1.51
18	G	201	CLA	CMB-C2B	-2.43	1.46	1.51
18	L	302	CLA	CMB-C2B	-2.43	1.46	1.51
18	A	827	CLA	CMB-C2B	-2.43	1.46	1.51
18	6	616	CLA	CMB-C2B	-2.43	1.46	1.51
18	F	304	CLA	CMB-C2B	-2.43	1.46	1.51
18	B	827	CLA	CMB-C2B	-2.43	1.46	1.51
18	2	611	CLA	CMB-C2B	-2.43	1.46	1.51
18	3	613	CLA	CMB-C2B	-2.43	1.46	1.51
18	B	806	CLA	CMB-C2B	-2.43	1.46	1.51
18	5	614	CLA	CMB-C2B	-2.43	1.46	1.51
18	A	804	CLA	CMB-C2B	-2.43	1.46	1.51
18	B	823	CLA	CMB-C2B	-2.42	1.46	1.51
18	A	816	CLA	CMB-C2B	-2.42	1.46	1.51
25	6	607	CHL	C1B-CHB	2.42	1.47	1.41
18	3	610	CLA	CMB-C2B	-2.42	1.46	1.51
18	6	614	CLA	CMB-C2B	-2.41	1.46	1.51
18	B	838	CLA	CMB-C2B	-2.41	1.46	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	3	608	CHL	MG-NA	-2.41	2.00	2.06
25	2	608	CHL	MG-NA	-2.41	2.00	2.06
18	B	813	CLA	CMB-C2B	-2.41	1.46	1.51
18	A	806	CLA	CMB-C2B	-2.41	1.46	1.51
18	A	814	CLA	CMB-C2B	-2.41	1.46	1.51
18	6	603	CLA	CMB-C2B	-2.41	1.46	1.51
26	5	619	LUT	C39-C29	2.40	1.55	1.50
25	2	616	CHL	C4B-CHC	2.40	1.47	1.41
18	A	805	CLA	CMB-C2B	-2.40	1.46	1.51
18	K	201	CLA	CMB-C2B	-2.40	1.46	1.51
26	2	619	LUT	C39-C29	2.40	1.55	1.50
25	2	608	CHL	C4B-CHC	2.40	1.47	1.41
25	2	601	CHL	C4B-CHC	2.40	1.47	1.41
18	J	101	CLA	CMB-C2B	-2.40	1.46	1.51
18	5	609	CLA	CMB-C2B	-2.39	1.46	1.51
18	A	854	CLA	CMB-C2B	-2.39	1.46	1.51
26	3	618	LUT	C39-C29	2.39	1.55	1.50
25	2	607	CHL	C4C-C3C	2.39	1.49	1.45
25	5	607	CHL	C1B-CHB	2.39	1.47	1.41
25	2	616	CHL	MG-NA	-2.39	2.00	2.06
18	F	305	CLA	CMB-C2B	-2.39	1.46	1.51
18	3	617	CLA	CMB-C2B	-2.39	1.46	1.51
18	3	611	CLA	CMB-C2B	-2.38	1.46	1.51
20	5	622	LHG	O7-C5	-2.38	1.40	1.46
18	A	817	CLA	CMB-C2B	-2.38	1.46	1.51
18	L	304	CLA	CMB-C2B	-2.37	1.46	1.51
18	A	823	CLA	CMB-C2B	-2.37	1.46	1.51
25	5	615	CHL	C4C-C3C	2.37	1.49	1.45
25	2	616	CHL	C4C-C3C	2.36	1.49	1.45
18	2	604	CLA	CMB-C2B	-2.36	1.46	1.51
20	A	846	LHG	O7-C5	-2.36	1.40	1.46
25	5	615	CHL	C4B-CHC	2.35	1.47	1.41
25	5	608	CHL	C4B-CHC	2.35	1.47	1.41
25	6	601	CHL	C4B-CHC	2.35	1.47	1.41
25	2	601	CHL	C1B-CHB	2.35	1.47	1.41
27	3	619	XAT	O24-C25	-2.35	1.42	1.46
27	2	620	XAT	O24-C25	-2.34	1.42	1.46
18	5	604	CLA	CMB-C2B	-2.33	1.46	1.51
25	5	607	CHL	C4C-C3C	2.33	1.49	1.45
25	5	606	CHL	C4C-C3C	2.33	1.49	1.44
25	3	608	CHL	C4B-CHC	2.32	1.47	1.41
18	K	201	CLA	C1B-NB	2.31	1.37	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	5	606	CHL	C4B-CHC	2.29	1.47	1.41
25	2	606	CHL	C4B-CHC	2.28	1.47	1.41
25	3	608	CHL	C1B-CHB	2.27	1.47	1.41
18	F	305	CLA	CMD-C2D	-2.27	1.46	1.50
25	2	608	CHL	C4C-C3C	2.27	1.49	1.45
21	J	103	BCR	C33-C5	-2.27	1.47	1.50
20	6	620	LHG	O7-C5	-2.26	1.40	1.46
27	5	620	XAT	C22-C21	-2.26	1.51	1.54
25	2	607	CHL	C1B-CHB	2.24	1.47	1.41
27	5	620	XAT	O24-C25	-2.24	1.43	1.46
25	6	601	CHL	C4C-C3C	2.24	1.48	1.45
18	B	829	CLA	CMD-C2D	-2.24	1.46	1.50
25	5	607	CHL	C1D-ND	-2.23	1.35	1.37
25	2	606	CHL	C4C-C3C	2.22	1.48	1.45
25	5	606	CHL	MG-NA	-2.21	2.01	2.06
25	6	607	CHL	C1D-ND	-2.21	1.35	1.37
25	2	608	CHL	C1B-CHB	2.21	1.47	1.41
18	B	803	CLA	CMC-C2C	-2.20	1.46	1.50
25	2	616	CHL	C1B-CHB	2.19	1.47	1.41
25	5	615	CHL	MG-NA	-2.19	2.01	2.06
25	2	601	CHL	C4C-C3C	2.18	1.48	1.45
20	A	847	LHG	O7-C5	-2.18	1.41	1.46
25	5	608	CHL	C1B-CHB	2.17	1.47	1.41
18	B	839	CLA	CMD-C2D	-2.17	1.46	1.50
18	A	843	CLA	CMD-C2D	-2.17	1.46	1.50
18	B	824	CLA	CMD-C2D	-2.16	1.46	1.50
25	5	615	CHL	C1B-CHB	2.16	1.47	1.41
18	B	828	CLA	CMD-C2D	-2.16	1.46	1.50
18	A	824	CLA	CMD-C2D	-2.15	1.46	1.50
25	5	608	CHL	MG-NA	-2.15	2.01	2.06
25	2	601	CHL	C1D-ND	-2.15	1.35	1.37
18	A	827	CLA	CMD-C2D	-2.15	1.46	1.50
27	5	620	XAT	O4-C5	-2.15	1.43	1.46
25	5	608	CHL	C1D-ND	-2.14	1.35	1.37
18	B	810	CLA	CMD-C2D	-2.14	1.46	1.50
27	6	619	XAT	O4-C5	-2.13	1.43	1.46
25	5	606	CHL	C1B-CHB	2.13	1.46	1.41
26	2	619	LUT	C38-C25	2.13	1.54	1.50
18	B	823	CLA	CMD-C2D	-2.13	1.46	1.50
18	B	820	CLA	CMD-C2D	-2.13	1.46	1.50
25	6	601	CHL	C1B-CHB	2.12	1.46	1.41
18	3	603	CLA	CMD-C2D	-2.12	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	3	608	CHL	C4C-C3C	2.12	1.48	1.45
18	A	810	CLA	CMD-C2D	-2.12	1.46	1.50
18	6	608	CLA	CMD-C2D	-2.12	1.46	1.50
18	B	828	CLA	C3B-C2B	-2.12	1.37	1.40
27	6	619	XAT	O24-C25	-2.12	1.43	1.46
18	A	807	CLA	CMD-C2D	-2.11	1.46	1.50
18	A	812	CLA	CMD-C2D	-2.11	1.46	1.50
18	A	822	CLA	CMD-C2D	-2.11	1.46	1.50
18	5	610	CLA	CMD-C2D	-2.10	1.46	1.50
26	6	617	LUT	C38-C25	2.10	1.54	1.50
25	6	601	CHL	C1D-ND	-2.10	1.35	1.37
18	3	606	CLA	CMD-C2D	-2.10	1.46	1.50
18	2	610	CLA	CMB-C2B	-2.10	1.47	1.51
18	A	818	CLA	CMC-C2C	-2.09	1.46	1.50
18	6	610	CLA	CMD-C2D	-2.09	1.46	1.50
18	B	802	CLA	CMD-C2D	-2.09	1.46	1.50
18	B	815	CLA	CMD-C2D	-2.09	1.46	1.50
18	5	614	CLA	CMD-C2D	-2.09	1.46	1.50
18	3	613	CLA	CMD-C2D	-2.09	1.46	1.50
18	A	813	CLA	CMD-C2D	-2.09	1.46	1.50
18	B	823	CLA	CMC-C2C	-2.08	1.46	1.50
18	B	830	CLA	CMD-C2D	-2.08	1.46	1.50
18	A	814	CLA	CMC-C2C	-2.08	1.46	1.50
18	B	808	CLA	CMD-C2D	-2.08	1.46	1.50
18	A	840	CLA	CMD-C2D	-2.08	1.46	1.50
18	B	813	CLA	CMC-C2C	-2.08	1.46	1.50
18	B	819	CLA	CMD-C2D	-2.08	1.46	1.50
18	B	816	CLA	CMD-C2D	-2.08	1.46	1.50
18	L	304	CLA	CMD-C2D	-2.08	1.46	1.50
18	A	806	CLA	CMD-C2D	-2.08	1.46	1.50
18	2	609	CLA	CMD-C2D	-2.08	1.46	1.50
25	2	606	CHL	MG-NA	-2.07	2.01	2.06
18	B	806	CLA	CMD-C2D	-2.07	1.46	1.50
18	B	804	CLA	CMD-C2D	-2.07	1.46	1.50
18	2	603	CLA	CMD-C2D	-2.07	1.46	1.50
18	B	837	CLA	CMD-C2D	-2.07	1.46	1.50
18	K	201	CLA	C3B-C2B	-2.07	1.37	1.40
18	A	825	CLA	CMD-C2D	-2.07	1.46	1.50
18	A	809	CLA	CMD-C2D	-2.07	1.46	1.50
18	A	821	CLA	CMD-C2D	-2.07	1.46	1.50
18	A	836	CLA	CMD-C2D	-2.07	1.46	1.50
18	5	602	CLA	CMD-C2D	-2.06	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	A	805	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	818	CLA	CMD-C2D	-2.06	1.46	1.50
18	A	802	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	840	CLA	CMD-C2D	-2.06	1.46	1.50
18	A	854	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	802	CLA	CMC-C2C	-2.06	1.46	1.50
18	L	302	CLA	CMD-C2D	-2.06	1.46	1.50
18	2	604	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	803	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	808	CLA	CMC-C2C	-2.06	1.46	1.50
18	6	613	CLA	CMD-C2D	-2.06	1.46	1.50
18	5	603	CLA	CMD-C2D	-2.06	1.46	1.50
18	6	609	CLA	CMD-C2D	-2.06	1.46	1.50
18	A	814	CLA	CMD-C2D	-2.06	1.46	1.50
18	3	617	CLA	CMD-C2D	-2.06	1.46	1.50
18	B	805	CLA	CMD-C2D	-2.06	1.46	1.50
18	A	820	CLA	CMD-C2D	-2.06	1.46	1.50
18	F	301	CLA	CMD-C2D	-2.05	1.46	1.50
18	5	611	CLA	CMD-C2D	-2.05	1.46	1.50
18	6	602	CLA	CMD-C2D	-2.05	1.46	1.50
18	6	603	CLA	CMD-C2D	-2.05	1.46	1.50
18	3	615	CLA	CBD-CAD	2.05	1.56	1.51
18	2	614	CLA	CMD-C2D	-2.05	1.46	1.50
18	6	606	CLA	CMD-C2D	-2.05	1.46	1.50
26	5	619	LUT	C38-C25	2.05	1.54	1.50
18	A	818	CLA	CMD-C2D	-2.05	1.46	1.50
18	A	826	CLA	CMD-C2D	-2.05	1.46	1.50
18	6	612	CLA	CMD-C2D	-2.05	1.46	1.50
18	B	838	CLA	CMD-C2D	-2.05	1.46	1.50
25	2	608	CHL	C1D-ND	-2.05	1.35	1.37
18	A	804	CLA	CMD-C2D	-2.05	1.46	1.50
18	A	830	CLA	CMD-C2D	-2.05	1.46	1.50
18	B	835	CLA	CMD-C2D	-2.05	1.46	1.50
18	A	843	CLA	C3B-C2B	-2.05	1.37	1.40
18	A	828	CLA	CMC-C2C	-2.05	1.46	1.50
18	2	602	CLA	CMD-C2D	-2.05	1.46	1.50
18	A	831	CLA	CMD-C2D	-2.04	1.46	1.50
18	B	834	CLA	CMD-C2D	-2.04	1.46	1.50
18	A	828	CLA	CMD-C2D	-2.04	1.46	1.50
18	A	803	CLA	CMD-C2D	-2.04	1.46	1.50
18	2	612	CLA	CMD-C2D	-2.04	1.46	1.50
18	G	204	CLA	CMD-C2D	-2.04	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	L	303	CLA	CMD-C2D	-2.04	1.46	1.50
18	B	831	CLA	CMD-C2D	-2.04	1.46	1.50
18	6	611	CLA	CMD-C2D	-2.04	1.46	1.50
25	2	607	CHL	C1D-ND	-2.04	1.35	1.37
25	5	608	CHL	C4C-C3C	2.04	1.48	1.45
18	B	841	CLA	CMD-C2D	-2.04	1.46	1.50
18	A	801	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	813	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	826	CLA	CMD-C2D	-2.03	1.46	1.50
18	A	819	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	811	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	807	CLA	CMD-C2D	-2.03	1.46	1.50
18	3	610	CLA	CMD-C2D	-2.03	1.46	1.50
27	2	620	XAT	O4-C5	-2.03	1.43	1.46
18	B	826	CLA	CMC-C2C	-2.03	1.46	1.50
18	2	611	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	833	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	822	CLA	CMD-C2D	-2.03	1.46	1.50
25	2	606	CHL	C1B-CHB	2.03	1.46	1.41
18	A	832	CLA	CMD-C2D	-2.03	1.46	1.50
18	A	811	CLA	CMD-C2D	-2.03	1.46	1.50
18	B	825	CLA	CMD-C2D	-2.03	1.46	1.50
18	A	842	CLA	CMD-C2D	-2.02	1.46	1.50
18	K	206	CLA	CMD-C2D	-2.02	1.46	1.50
18	3	603	CLA	C3B-C2B	-2.02	1.37	1.40
18	A	815	CLA	CMD-C2D	-2.02	1.46	1.50
18	A	823	CLA	CMD-C2D	-2.02	1.46	1.50
18	3	604	CLA	CMD-C2D	-2.02	1.46	1.50
18	B	814	CLA	CMD-C2D	-2.02	1.46	1.50
18	3	607	CLA	CMD-C2D	-2.02	1.46	1.50
18	A	834	CLA	CMD-C2D	-2.02	1.46	1.50
18	K	203	CLA	CMD-C2D	-2.02	1.46	1.50
18	2	610	CLA	C3B-CAB	-2.02	1.43	1.47
26	5	619	LUT	C40-C33	2.02	1.55	1.50
18	A	829	CLA	CMD-C2D	-2.02	1.46	1.50
18	A	816	CLA	CMD-C2D	-2.02	1.46	1.50
18	2	610	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	835	CLA	CMC-C2C	-2.01	1.46	1.50
18	A	841	CLA	CMD-C2D	-2.01	1.46	1.50
18	5	609	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	808	CLA	CMD-C2D	-2.01	1.46	1.50
18	F	304	CLA	CMD-C2D	-2.01	1.46	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	5	615	CHL	C1D-ND	-2.01	1.35	1.37
18	A	806	CLA	CMC-C2C	-2.01	1.46	1.50
18	A	835	CLA	CMD-C2D	-2.01	1.46	1.50
18	6	604	CLA	CMD-C2D	-2.01	1.46	1.50
18	3	609	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	819	CLA	CMC-C2C	-2.01	1.46	1.50
18	J	101	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	841	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	809	CLA	CMD-C2D	-2.01	1.46	1.50
18	3	614	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	817	CLA	CMD-C2D	-2.01	1.46	1.50
18	G	203	CLA	CMD-C2D	-2.01	1.46	1.50
18	A	804	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	825	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	815	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	827	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	832	CLA	CMD-C2D	-2.01	1.46	1.50
18	B	837	CLA	CMC-C2C	-2.01	1.46	1.50
18	B	817	CLA	CMD-C2D	-2.01	1.46	1.50
18	B	827	CLA	CMD-C2D	-2.00	1.46	1.50
18	5	612	CLA	CMD-C2D	-2.00	1.46	1.50
18	A	805	CLA	CMC-C2C	-2.00	1.46	1.50
18	A	829	CLA	CMC-C2C	-2.00	1.46	1.50
18	5	613	CLA	CMD-C2D	-2.00	1.46	1.50
18	B	836	CLA	CMD-C2D	-2.00	1.46	1.50
18	3	610	CLA	CMC-C2C	-2.00	1.46	1.50
18	3	611	CLA	CMD-C2D	-2.00	1.46	1.50

All (1658) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	2	619	LUT	C18-C5-C6	-14.02	108.78	124.53
26	5	619	LUT	C18-C5-C6	-12.36	110.65	124.53
26	6	617	LUT	C18-C5-C6	-12.10	110.94	124.53
26	2	619	LUT	C15-C14-C13	-11.96	110.24	127.31
26	3	618	LUT	C18-C5-C6	-11.81	111.26	124.53
26	3	618	LUT	C15-C14-C13	-11.59	110.77	127.31
26	2	619	LUT	C11-C10-C9	-11.19	111.34	127.31
26	5	619	LUT	C15-C14-C13	-10.86	111.82	127.31
26	6	617	LUT	C15-C14-C13	-10.76	111.96	127.31
27	6	619	XAT	O24-C25-C24	10.74	121.45	113.38
26	3	618	LUT	C11-C10-C9	-10.09	112.90	127.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	6	617	LUT	C11-C10-C9	-9.89	113.19	127.31
27	2	620	XAT	C18-C5-C6	-9.89	105.69	122.26
26	5	619	LUT	C31-C30-C29	-9.85	113.26	127.31
26	6	617	LUT	C31-C30-C29	-9.74	113.40	127.31
27	2	620	XAT	O24-C25-C24	9.73	120.69	113.38
26	5	619	LUT	C11-C10-C9	-9.60	113.62	127.31
26	3	618	LUT	C31-C30-C29	-9.37	113.93	127.31
27	2	620	XAT	O4-C5-C18	9.33	126.23	115.06
25	2	606	CHL	CMD-C2D-C1D	8.40	139.52	124.71
25	5	606	CHL	CMD-C2D-C1D	8.30	139.33	124.71
26	2	619	LUT	C31-C30-C29	-8.29	115.48	127.31
25	3	608	CHL	CMD-C2D-C1D	8.29	139.32	124.71
25	2	608	CHL	CMD-C2D-C1D	8.26	139.26	124.71
25	5	615	CHL	CMD-C2D-C1D	8.24	139.24	124.71
25	2	616	CHL	CMD-C2D-C1D	8.22	139.19	124.71
25	2	607	CHL	CMD-C2D-C1D	8.14	139.05	124.71
25	6	601	CHL	CMD-C2D-C1D	8.11	139.01	124.71
25	5	608	CHL	CMD-C2D-C1D	8.09	138.97	124.71
25	2	601	CHL	CMD-C2D-C1D	8.05	138.90	124.71
25	6	607	CHL	CMD-C2D-C1D	8.05	138.89	124.71
25	5	607	CHL	CMD-C2D-C1D	7.93	138.68	124.71
27	5	620	XAT	O24-C25-C24	7.76	119.21	113.38
25	2	606	CHL	C2C-C3C-C4C	-7.44	101.19	106.49
25	2	601	CHL	CHD-C1D-ND	-7.44	117.62	124.45
25	5	607	CHL	CHD-C1D-ND	-7.36	117.69	124.45
25	5	615	CHL	C2C-C3C-C4C	-7.28	101.30	106.49
25	2	607	CHL	C2C-C3C-C4C	-7.25	101.32	106.49
25	6	607	CHL	CHD-C1D-ND	-7.22	117.82	124.45
25	5	606	CHL	C2C-C3C-C4C	-7.21	101.13	106.49
25	5	608	CHL	C2C-C3C-C4C	-7.21	101.35	106.49
27	6	619	XAT	C26-C27-C28	-7.18	110.80	125.99
25	6	601	CHL	C2C-C3C-C4C	-7.15	101.39	106.49
25	6	607	CHL	C2C-C3C-C4C	-7.13	101.41	106.49
18	K	201	CLA	C4A-NA-C1A	7.12	109.91	106.71
18	A	845	CLA	C4A-NA-C1A	7.10	109.90	106.71
18	B	804	CLA	C4A-NA-C1A	7.09	109.89	106.71
25	2	616	CHL	C2C-C3C-C4C	-7.08	101.44	106.49
25	2	608	CHL	C2C-C3C-C4C	-7.06	101.45	106.49
25	2	607	CHL	CHD-C1D-ND	-7.03	117.99	124.45
27	5	620	XAT	C18-C5-C6	-7.03	110.48	122.26
26	5	619	LUT	C38-C25-C24	-7.03	108.52	123.56
27	5	620	XAT	C27-C28-C29	-7.03	114.62	125.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	3	611	CLA	C4A-NA-C1A	6.99	109.85	106.71
26	6	617	LUT	C38-C25-C24	-6.96	108.68	123.56
26	2	619	LUT	C38-C25-C24	-6.95	108.69	123.56
27	3	619	XAT	C38-C25-C26	-6.91	110.68	122.26
18	2	604	CLA	C4A-NA-C1A	6.90	109.81	106.71
25	5	606	CHL	C1B-C2B-C3B	-6.90	100.50	106.92
25	2	601	CHL	C2C-C3C-C4C	-6.90	101.57	106.49
25	5	607	CHL	C2C-C3C-C4C	-6.88	101.58	106.49
18	K	204	CLA	C4A-NA-C1A	6.87	109.80	106.71
25	2	608	CHL	CHD-C1D-ND	-6.86	118.15	124.45
25	6	601	CHL	CHD-C1D-ND	-6.85	118.16	124.45
18	B	803	CLA	C4A-NA-C1A	6.82	109.77	106.71
18	5	613	CLA	C4A-NA-C1A	6.82	109.77	106.71
18	A	839	CLA	C4A-NA-C1A	6.81	109.77	106.71
18	A	810	CLA	C4A-NA-C1A	6.80	109.76	106.71
18	B	837	CLA	C4A-NA-C1A	6.80	109.76	106.71
18	F	304	CLA	C4A-NA-C1A	6.79	109.76	106.71
18	A	805	CLA	C4A-NA-C1A	6.78	109.75	106.71
18	5	604	CLA	C4A-NA-C1A	6.77	109.75	106.71
18	L	303	CLA	C4A-NA-C1A	6.75	109.74	106.71
18	A	818	CLA	C4A-NA-C1A	6.74	109.73	106.71
18	B	808	CLA	C4A-NA-C1A	6.72	109.73	106.71
25	3	608	CHL	CHD-C1D-ND	-6.72	118.28	124.45
18	A	831	CLA	C4A-NA-C1A	6.70	109.72	106.71
25	2	601	CHL	C1B-C2B-C3B	-6.70	100.69	106.92
18	A	819	CLA	C4A-NA-C1A	6.68	109.71	106.71
18	B	826	CLA	C4A-NA-C1A	6.68	109.71	106.71
18	6	603	CLA	C4A-NA-C1A	6.68	109.71	106.71
18	A	816	CLA	C4A-NA-C1A	6.67	109.70	106.71
18	A	830	CLA	C4A-NA-C1A	6.67	109.70	106.71
18	L	302	CLA	C4A-NA-C1A	6.67	109.70	106.71
18	A	822	CLA	C4A-NA-C1A	6.66	109.70	106.71
18	A	841	CLA	C4A-NA-C1A	6.66	109.70	106.71
18	B	812	CLA	C4A-NA-C1A	6.65	109.70	106.71
18	K	203	CLA	C4A-NA-C1A	6.65	109.70	106.71
18	A	804	CLA	C4A-NA-C1A	6.64	109.69	106.71
18	6	613	CLA	C4A-NA-C1A	6.64	109.69	106.71
18	G	201	CLA	C4A-NA-C1A	6.63	109.69	106.71
18	3	612	CLA	C4A-NA-C1A	6.63	109.69	106.71
26	3	618	LUT	C38-C25-C24	-6.62	109.40	123.56
18	B	822	CLA	C4A-NA-C1A	6.62	109.68	106.71
18	B	814	CLA	C4A-NA-C1A	6.61	109.68	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	812	CLA	C4A-NA-C1A	6.60	109.67	106.71
18	3	607	CLA	C4A-NA-C1A	6.60	109.67	106.71
18	B	832	CLA	C4A-NA-C1A	6.60	109.67	106.71
18	5	614	CLA	C4A-NA-C1A	6.60	109.67	106.71
18	A	802	CLA	C4A-NA-C1A	6.59	109.67	106.71
18	B	815	CLA	C4A-NA-C1A	6.58	109.67	106.71
18	A	835	CLA	C4A-NA-C1A	6.58	109.66	106.71
18	3	602	CLA	C4A-NA-C1A	6.58	109.66	106.71
25	5	615	CHL	CHD-C1D-ND	-6.57	118.41	124.45
18	6	612	CLA	C4A-NA-C1A	6.57	109.66	106.71
18	B	819	CLA	C4A-NA-C1A	6.56	109.66	106.71
18	2	614	CLA	C4A-NA-C1A	6.56	109.66	106.71
18	K	206	CLA	C4A-NA-C1A	6.56	109.66	106.71
18	B	807	CLA	C4A-NA-C1A	6.56	109.65	106.71
18	2	602	CLA	C4A-NA-C1A	6.55	109.65	106.71
18	6	616	CLA	C4A-NA-C1A	6.55	109.65	106.71
18	A	842	CLA	C4A-NA-C1A	6.54	109.65	106.71
18	A	823	CLA	C4A-NA-C1A	6.54	109.65	106.71
18	B	831	CLA	C4A-NA-C1A	6.54	109.65	106.71
18	B	820	CLA	C4A-NA-C1A	6.53	109.64	106.71
18	5	612	CLA	C4A-NA-C1A	6.53	109.64	106.71
18	3	603	CLA	C4A-NA-C1A	6.53	109.64	106.71
25	2	616	CHL	CHD-C1D-ND	-6.53	118.46	124.45
18	2	613	CLA	C4A-NA-C1A	6.52	109.64	106.71
18	A	832	CLA	C4A-NA-C1A	6.51	109.64	106.71
18	B	825	CLA	C4A-NA-C1A	6.51	109.64	106.71
18	B	818	CLA	C4A-NA-C1A	6.51	109.63	106.71
18	A	809	CLA	C4A-NA-C1A	6.51	109.63	106.71
18	B	817	CLA	C4A-NA-C1A	6.51	109.63	106.71
18	B	834	CLA	C4A-NA-C1A	6.51	109.63	106.71
18	F	303	CLA	C4A-NA-C1A	6.51	109.63	106.71
18	2	603	CLA	C4A-NA-C1A	6.51	109.63	106.71
27	3	619	XAT	C18-C5-C6	-6.50	111.36	122.26
18	L	304	CLA	C4A-NA-C1A	6.50	109.63	106.71
18	6	608	CLA	C4A-NA-C1A	6.50	109.63	106.71
18	B	829	CLA	C4A-NA-C1A	6.49	109.63	106.71
18	A	817	CLA	C4A-NA-C1A	6.49	109.62	106.71
18	A	813	CLA	C4A-NA-C1A	6.49	109.62	106.71
18	B	806	CLA	C4A-NA-C1A	6.49	109.62	106.71
18	A	815	CLA	C4A-NA-C1A	6.49	109.62	106.71
18	3	609	CLA	C4A-NA-C1A	6.48	109.62	106.71
18	5	609	CLA	C4A-NA-C1A	6.48	109.62	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	824	CLA	C4A-NA-C1A	6.48	109.62	106.71
18	A	836	CLA	C4A-NA-C1A	6.48	109.62	106.71
18	F	305	CLA	C4A-NA-C1A	6.48	109.62	106.71
27	5	620	XAT	O4-C5-C4	6.47	118.24	113.38
18	A	808	CLA	C4A-NA-C1A	6.47	109.61	106.71
26	2	619	LUT	C1-C6-C5	-6.47	113.50	122.61
18	A	837	CLA	C4A-NA-C1A	6.46	109.61	106.71
18	A	807	CLA	C4A-NA-C1A	6.46	109.61	106.71
18	B	835	CLA	C4A-NA-C1A	6.46	109.61	106.71
18	F	301	CLA	C4A-NA-C1A	6.46	109.61	106.71
18	3	614	CLA	C4A-NA-C1A	6.46	109.61	106.71
18	3	606	CLA	C4A-NA-C1A	6.44	109.60	106.71
18	B	839	CLA	C4A-NA-C1A	6.44	109.60	106.71
18	6	609	CLA	C4A-NA-C1A	6.43	109.60	106.71
18	5	601	CLA	C4A-NA-C1A	6.42	109.59	106.71
25	5	606	CHL	CHD-C1D-ND	-6.41	118.56	124.45
18	A	829	CLA	C4A-NA-C1A	6.41	109.59	106.71
18	B	830	CLA	C4A-NA-C1A	6.40	109.58	106.71
18	B	810	CLA	C4A-NA-C1A	6.40	109.58	106.71
18	6	604	CLA	C4A-NA-C1A	6.40	109.58	106.71
18	5	603	CLA	C4A-NA-C1A	6.40	109.58	106.71
18	B	805	CLA	C4A-NA-C1A	6.40	109.58	106.71
18	B	827	CLA	C4A-NA-C1A	6.40	109.58	106.71
25	2	606	CHL	CHD-C1D-ND	-6.40	118.58	124.45
18	G	204	CLA	C4A-NA-C1A	6.39	109.58	106.71
18	6	606	CLA	C4A-NA-C1A	6.39	109.58	106.71
18	2	612	CLA	C4A-NA-C1A	6.39	109.58	106.71
18	B	821	CLA	C4A-NA-C1A	6.37	109.57	106.71
18	A	834	CLA	C4A-NA-C1A	6.37	109.57	106.71
18	2	609	CLA	C4A-NA-C1A	6.37	109.57	106.71
18	5	610	CLA	C4A-NA-C1A	6.37	109.57	106.71
18	2	611	CLA	C4A-NA-C1A	6.36	109.57	106.71
18	A	806	CLA	C4A-NA-C1A	6.36	109.56	106.71
27	6	619	XAT	C35-C34-C33	-6.36	118.24	127.31
18	A	833	CLA	C4A-NA-C1A	6.36	109.56	106.71
18	B	809	CLA	C4A-NA-C1A	6.35	109.56	106.71
18	B	840	CLA	C4A-NA-C1A	6.34	109.56	106.71
18	3	613	CLA	C4A-NA-C1A	6.34	109.56	106.71
18	A	826	CLA	C4A-NA-C1A	6.34	109.56	106.71
18	3	610	CLA	C4A-NA-C1A	6.33	109.55	106.71
18	A	838	CLA	C4A-NA-C1A	6.32	109.55	106.71
18	B	823	CLA	C4A-NA-C1A	6.30	109.54	106.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	G	203	CLA	C4A-NA-C1A	6.30	109.54	106.71
18	J	101	CLA	C4A-NA-C1A	6.30	109.54	106.71
18	B	824	CLA	C4A-NA-C1A	6.30	109.54	106.71
18	A	811	CLA	C4A-NA-C1A	6.29	109.54	106.71
18	A	814	CLA	C4A-NA-C1A	6.29	109.53	106.71
18	B	838	CLA	C4A-NA-C1A	6.28	109.53	106.71
18	A	828	CLA	C4A-NA-C1A	6.27	109.53	106.71
18	6	610	CLA	C4A-NA-C1A	6.27	109.53	106.71
25	5	608	CHL	CHD-C1D-ND	-6.27	118.69	124.45
18	A	821	CLA	C4A-NA-C1A	6.27	109.52	106.71
18	6	611	CLA	C4A-NA-C1A	6.26	109.52	106.71
18	6	602	CLA	C4A-NA-C1A	6.26	109.52	106.71
18	A	843	CLA	C4A-NA-C1A	6.26	109.52	106.71
18	A	840	CLA	C4A-NA-C1A	6.25	109.52	106.71
18	3	604	CLA	C4A-NA-C1A	6.24	109.51	106.71
18	B	816	CLA	C4A-NA-C1A	6.24	109.51	106.71
18	A	827	CLA	C4A-NA-C1A	6.23	109.51	106.71
18	B	841	CLA	C4A-NA-C1A	6.23	109.51	106.71
18	3	617	CLA	C4A-NA-C1A	6.22	109.50	106.71
18	B	802	CLA	C4A-NA-C1A	6.22	109.50	106.71
18	B	811	CLA	C4A-NA-C1A	6.21	109.50	106.71
18	3	615	CLA	C4A-NA-C1A	6.21	109.50	106.71
18	5	602	CLA	C4A-NA-C1A	6.20	109.49	106.71
18	B	836	CLA	C4A-NA-C1A	6.18	109.49	106.71
27	6	619	XAT	C18-C5-C6	-6.15	111.95	122.26
18	B	828	CLA	C4A-NA-C1A	6.14	109.47	106.71
18	A	825	CLA	C4A-NA-C1A	6.13	109.46	106.71
27	6	619	XAT	C6-C7-C8	-6.13	113.04	125.99
18	A	801	CLA	C4A-NA-C1A	6.11	109.45	106.71
26	5	619	LUT	C8-C7-C6	-6.11	110.04	127.20
18	A	820	CLA	C4A-NA-C1A	6.10	109.45	106.71
27	3	619	XAT	C6-C7-C8	-6.09	113.11	125.99
26	2	619	LUT	C7-C6-C5	-6.06	106.77	121.46
18	B	813	CLA	C4A-NA-C1A	6.06	109.43	106.71
27	6	619	XAT	C38-C25-C26	-6.01	112.19	122.26
18	A	854	CLA	C4A-NA-C1A	5.93	109.37	106.71
18	B	833	CLA	C4A-NA-C1A	5.91	109.36	106.71
27	2	620	XAT	C38-C25-C26	-5.83	112.49	122.26
26	6	617	LUT	C35-C15-C14	-5.82	111.55	123.47
18	2	610	CLA	C4A-NA-C1A	5.77	109.30	106.71
18	6	614	CLA	C4A-NA-C1A	5.77	109.30	106.71
26	3	618	LUT	C1-C6-C5	-5.68	114.61	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	803	CLA	C4A-NA-C1A	5.64	109.24	106.71
26	3	618	LUT	C8-C7-C6	-5.63	111.39	127.20
27	2	620	XAT	C26-C27-C28	-5.44	114.50	125.99
26	5	619	LUT	C1-C6-C5	-5.42	114.98	122.61
27	3	619	XAT	O4-C5-C18	5.42	121.55	115.06
27	3	619	XAT	O24-C25-C24	5.27	117.34	113.38
26	2	619	LUT	C8-C7-C6	-5.25	112.45	127.20
25	2	606	CHL	C3C-C4C-NC	5.21	116.41	110.57
26	6	617	LUT	C8-C7-C6	-5.18	112.66	127.20
26	6	617	LUT	C35-C34-C33	-5.14	119.97	127.31
25	2	601	CHL	O2D-CGD-CBD	5.14	120.40	111.27
25	2	616	CHL	O2D-CGD-CBD	5.12	120.37	111.27
26	6	617	LUT	C7-C6-C5	-5.10	109.11	121.46
25	5	608	CHL	C3C-C4C-NC	5.08	116.27	110.57
25	5	606	CHL	O2D-CGD-CBD	5.08	120.29	111.27
25	5	606	CHL	C3C-C4C-NC	5.04	116.07	110.57
26	2	619	LUT	C30-C31-C32	-5.03	107.51	123.22
25	2	607	CHL	O2D-CGD-CBD	4.99	120.13	111.27
26	3	618	LUT	C35-C15-C14	-4.94	113.36	123.47
25	5	607	CHL	C1B-CHB-C4A	-4.92	120.38	130.12
26	2	619	LUT	C7-C8-C9	-4.86	118.89	126.23
25	5	615	CHL	C3C-C4C-NC	4.85	116.01	110.57
27	5	620	XAT	O4-C5-C18	4.83	120.85	115.06
26	5	619	LUT	C35-C15-C14	-4.75	113.75	123.47
27	3	619	XAT	O24-C25-C38	4.70	120.69	115.06
27	6	619	XAT	O4-C5-C18	4.70	120.68	115.06
27	5	620	XAT	C35-C34-C33	-4.66	120.66	127.31
25	3	608	CHL	C2C-C1C-NC	4.66	114.34	109.97
25	5	607	CHL	O2D-CGD-CBD	4.65	119.54	111.27
25	2	606	CHL	C3D-C2D-C1D	-4.64	99.49	105.83
25	5	608	CHL	C3D-C2D-C1D	-4.60	99.55	105.83
25	5	615	CHL	O2D-CGD-CBD	4.60	119.45	111.27
26	2	619	LUT	C35-C15-C14	-4.59	114.08	123.47
25	3	608	CHL	C3D-C2D-C1D	-4.54	99.63	105.83
27	6	619	XAT	O4-C5-C4	4.54	116.79	113.38
25	2	616	CHL	C3C-C4C-NC	4.53	115.65	110.57
25	5	606	CHL	C3D-C2D-C1D	-4.52	99.66	105.83
25	5	615	CHL	C3D-C2D-C1D	-4.51	99.68	105.83
25	2	616	CHL	C3D-C2D-C1D	-4.50	99.70	105.83
25	3	608	CHL	C3C-C4C-NC	4.48	115.60	110.57
25	2	608	CHL	C3D-C2D-C1D	-4.47	99.73	105.83
25	6	601	CHL	C3C-C4C-NC	4.47	115.58	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	6	601	CHL	C3D-C2D-C1D	-4.44	99.77	105.83
25	2	608	CHL	C3C-C4C-NC	4.40	115.51	110.57
18	A	814	CLA	CMB-C2B-C1B	-4.40	121.70	128.46
25	6	607	CHL	C1B-CHB-C4A	-4.40	121.40	130.12
27	3	619	XAT	C26-C27-C28	-4.39	116.70	125.99
25	2	601	CHL	C3D-C2D-C1D	-4.37	99.86	105.83
18	5	609	CLA	CMB-C2B-C1B	-4.37	121.75	128.46
27	3	619	XAT	C18-C5-C4	4.37	119.19	114.28
27	5	620	XAT	C6-C7-C8	-4.35	116.79	125.99
25	2	606	CHL	O2D-CGD-CBD	4.35	119.00	111.27
18	B	833	CLA	CMB-C2B-C1B	-4.35	121.78	128.46
18	A	833	CLA	CMB-C2B-C1B	-4.35	121.78	128.46
25	2	607	CHL	C3D-C2D-C1D	-4.34	99.90	105.83
26	6	617	LUT	C10-C11-C12	-4.33	109.71	123.22
25	5	607	CHL	C3D-C2D-C1D	-4.33	99.93	105.83
18	2	604	CLA	CMB-C2B-C1B	-4.31	121.83	128.46
26	5	619	LUT	C35-C34-C33	-4.31	121.16	127.31
18	A	809	CLA	CMB-C2B-C1B	-4.31	121.84	128.46
25	2	606	CHL	CHD-C4C-C3C	-4.31	118.51	124.84
25	2	607	CHL	C3C-C4C-NC	4.30	115.39	110.57
26	6	617	LUT	C30-C31-C32	-4.29	109.82	123.22
18	A	816	CLA	CMB-C2B-C1B	-4.29	121.88	128.46
20	2	622	LHG	O4-P-O5	4.28	133.39	112.24
18	2	610	CLA	CMB-C2B-C1B	-4.28	121.89	128.46
20	6	620	LHG	O4-P-O5	4.26	133.31	112.24
18	A	805	CLA	CMB-C2B-C1B	-4.26	121.92	128.46
18	B	836	CLA	CMB-C2B-C1B	-4.25	121.94	128.46
25	5	608	CHL	CHD-C4C-C3C	-4.23	118.63	124.84
25	5	607	CHL	C4A-NA-C1A	4.22	108.60	106.71
26	6	617	LUT	C7-C8-C9	-4.22	119.86	126.23
20	A	846	LHG	O4-P-O5	4.21	133.06	112.24
18	A	806	CLA	CMB-C2B-C1B	-4.21	122.00	128.46
25	5	608	CHL	O2D-CGD-CBD	4.20	118.74	111.27
18	B	813	CLA	CMB-C2B-C1B	-4.20	122.00	128.46
18	A	811	CLA	CMB-C2B-C1B	-4.20	122.01	128.46
18	5	604	CLA	CMB-C2B-C1B	-4.19	122.03	128.46
20	A	847	LHG	O4-P-O5	4.19	132.94	112.24
18	A	808	CLA	CMB-C2B-C1B	-4.18	122.04	128.46
20	B	851	LHG	O4-P-O5	4.18	132.91	112.24
20	5	622	LHG	O4-P-O5	4.18	132.89	112.24
18	B	827	CLA	CMB-C2B-C1B	-4.17	122.05	128.46
26	5	619	LUT	C7-C6-C5	-4.17	111.36	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	823	CLA	CMB-C2B-C1B	-4.16	122.07	128.46
18	A	831	CLA	CMB-C2B-C1B	-4.16	122.07	128.46
18	A	803	CLA	CMB-C2B-C1B	-4.15	122.08	128.46
18	A	826	CLA	CMB-C2B-C1B	-4.15	122.08	128.46
25	2	601	CHL	C3C-C4C-NC	4.15	115.22	110.57
18	L	304	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
18	A	827	CLA	CMB-C2B-C1B	-4.15	122.09	128.46
26	3	618	LUT	C30-C31-C32	-4.13	110.32	123.22
18	A	802	CLA	CMB-C2B-C1B	-4.13	122.12	128.46
26	3	618	LUT	C35-C34-C33	-4.13	121.42	127.31
18	A	819	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
18	A	829	CLA	CMB-C2B-C1B	-4.11	122.15	128.46
18	A	839	CLA	CMB-C2B-C1B	-4.10	122.16	128.46
25	2	606	CHL	C2D-C1D-ND	4.09	113.12	110.10
26	3	618	LUT	C7-C6-C5	-4.08	111.58	121.46
27	3	619	XAT	C15-C14-C13	-4.07	121.51	127.31
25	2	607	CHL	C1B-CHB-C4A	-4.06	122.07	130.12
27	2	620	XAT	C35-C34-C33	-4.06	121.51	127.31
18	A	818	CLA	CMB-C2B-C1B	-4.05	122.24	128.46
18	B	829	CLA	CMB-C2B-C1B	-4.04	122.25	128.46
18	3	617	CLA	CMB-C2B-C1B	-4.04	122.26	128.46
25	6	607	CHL	C3C-C4C-NC	4.03	115.09	110.57
18	B	830	CLA	CMB-C2B-C1B	-4.02	122.29	128.46
25	6	607	CHL	C3D-C2D-C1D	-4.01	100.36	105.83
18	A	830	CLA	CMB-C2B-C1B	-3.99	122.32	128.46
26	6	617	LUT	C1-C6-C5	-3.99	117.00	122.61
18	3	609	CLA	CMB-C2B-C1B	-3.99	122.34	128.46
18	A	804	CLA	CMB-C2B-C1B	-3.97	122.36	128.46
18	B	820	CLA	CMB-C2B-C1B	-3.97	122.36	128.46
23	B	850	DGD	O3G-C3G-C2G	-3.96	101.33	110.90
18	B	832	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
18	6	610	CLA	CMB-C2B-C1B	-3.96	122.38	128.46
18	B	823	CLA	CMB-C2B-C1B	-3.95	122.39	128.46
26	5	619	LUT	C30-C31-C32	-3.95	110.90	123.22
27	3	619	XAT	C5-C4-C3	-3.93	104.97	112.75
18	B	819	CLA	CMB-C2B-C1B	-3.93	122.42	128.46
18	B	838	CLA	CMB-C2B-C1B	-3.93	122.43	128.46
25	5	608	CHL	C2D-C1D-ND	3.93	113.00	110.10
18	L	302	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
18	3	610	CLA	CMB-C2B-C1B	-3.91	122.46	128.46
18	B	812	CLA	CMB-C2B-C1B	-3.88	122.50	128.46
18	A	854	CLA	CMB-C2B-C1B	-3.88	122.50	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	5	607	CHL	C3C-C4C-NC	3.88	114.92	110.57
18	B	825	CLA	CMB-C2B-C1B	-3.88	122.50	128.46
27	2	620	XAT	C7-C8-C9	-3.87	119.52	125.53
27	2	620	XAT	C18-C5-C4	3.87	118.63	114.28
18	A	820	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
18	B	806	CLA	CMB-C2B-C1B	-3.87	122.52	128.46
25	2	606	CHL	C1D-ND-C4D	-3.86	103.59	106.33
18	A	832	CLA	CMB-C2B-C1B	-3.86	122.54	128.46
27	5	620	XAT	C24-C23-C22	-3.86	103.33	110.77
18	A	807	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
18	B	804	CLA	CMB-C2B-C1B	-3.85	122.54	128.46
18	B	814	CLA	CMB-C2B-C1B	-3.85	122.55	128.46
18	B	826	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
18	B	822	CLA	CMB-C2B-C1B	-3.83	122.58	128.46
18	6	602	CLA	CMB-C2B-C1B	-3.82	122.59	128.46
27	6	619	XAT	C5-C4-C3	-3.82	105.20	112.75
27	5	620	XAT	C31-C30-C29	-3.81	121.87	127.31
25	5	615	CHL	CHD-C4C-C3C	-3.80	119.25	124.84
25	2	616	CHL	C1B-CHB-C4A	-3.80	122.59	130.12
18	2	611	CLA	CMB-C2B-C1B	-3.80	122.63	128.46
27	3	619	XAT	C24-C23-C22	-3.79	103.45	110.77
25	5	606	CHL	CHD-C4C-C3C	-3.78	119.07	124.98
18	B	803	CLA	CMB-C2B-C1B	-3.77	122.66	128.46
18	A	836	CLA	CMB-C2B-C1B	-3.77	122.67	128.46
25	2	616	CHL	CAC-C3C-C4C	3.76	129.69	124.81
18	A	814	CLA	CMB-C2B-C3B	3.76	131.71	124.68
27	6	619	XAT	C18-C5-C4	3.75	118.50	114.28
27	3	619	XAT	C38-C25-C24	3.74	118.49	114.28
18	3	606	CLA	CMB-C2B-C1B	-3.74	122.72	128.46
18	B	809	CLA	CMB-C2B-C1B	-3.73	122.73	128.46
21	K	207	BCR	C2-C1-C6	3.72	116.21	110.48
18	B	807	CLA	CMB-C2B-C1B	-3.72	122.75	128.46
18	6	609	CLA	CAB-C3B-C4B	-3.72	122.75	128.46
18	6	616	CLA	CAB-C3B-C4B	-3.71	122.76	128.46
18	A	813	CLA	CMB-C2B-C1B	-3.70	122.77	128.46
25	2	606	CHL	C3B-C4B-NB	3.70	114.00	109.21
18	F	305	CLA	CMB-C2B-C1B	-3.70	122.78	128.46
18	A	837	CLA	CMB-C2B-C1B	-3.69	122.79	128.46
18	5	611	CLA	CAB-C3B-C4B	-3.69	122.79	128.46
18	6	606	CLA	CBD-CHA-C1A	3.69	132.85	128.50
18	5	609	CLA	CMB-C2B-C3B	3.69	131.57	124.68
21	A	848	BCR	C2-C1-C6	3.68	116.15	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	3	618	LUT	C7-C8-C9	-3.67	120.68	126.23
18	A	817	CLA	CMB-C2B-C1B	-3.67	122.82	128.46
21	A	856	BCR	C2-C1-C6	3.67	116.13	110.48
18	A	828	CLA	CMB-C2B-C1B	-3.67	122.83	128.46
26	5	619	LUT	C10-C11-C12	-3.67	111.78	123.22
18	6	614	CLA	CAB-C3B-C4B	-3.64	122.87	128.46
18	A	805	CLA	CMB-C2B-C3B	3.64	131.49	124.68
25	5	615	CHL	CAC-C3C-C4C	3.64	129.53	124.81
18	A	809	CLA	CMB-C2B-C3B	3.62	131.44	124.68
18	A	816	CLA	CMB-C2B-C3B	3.61	131.44	124.68
18	2	602	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
18	B	835	CLA	CMB-C2B-C1B	-3.61	122.91	128.46
27	6	619	XAT	C28-C29-C30	-3.61	113.40	118.94
25	5	606	CHL	C2D-C1D-ND	3.61	112.76	110.10
25	2	607	CHL	CAC-C3C-C4C	3.61	129.49	124.81
18	K	204	CLA	CAB-C3B-C4B	-3.60	122.93	128.46
18	A	803	CLA	CMB-C2B-C3B	3.60	131.41	124.68
18	3	602	CLA	CMB-C2B-C1B	-3.60	122.94	128.46
18	6	603	CLA	CMB-C2B-C1B	-3.59	122.94	128.46
18	3	607	CLA	CAB-C3B-C4B	-3.59	122.94	128.46
18	2	604	CLA	CMB-C2B-C3B	3.59	131.40	124.68
27	2	620	XAT	C5-C4-C3	-3.59	105.64	112.75
25	3	608	CHL	C4C-C3C-C2C	-3.59	101.67	106.90
18	B	831	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
18	B	839	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
18	2	609	CLA	CMB-C2B-C1B	-3.58	122.96	128.46
18	B	827	CLA	CMB-C2B-C3B	3.58	131.37	124.68
18	A	826	CLA	CMB-C2B-C3B	3.58	131.37	124.68
27	5	620	XAT	C35-C15-C14	-3.58	116.14	123.47
25	3	608	CHL	CHD-C4C-C3C	-3.58	119.58	124.84
18	5	614	CLA	CMB-C2B-C1B	-3.58	122.97	128.46
25	6	601	CHL	CHD-C4C-C3C	-3.58	119.58	124.84
18	A	833	CLA	CMB-C2B-C3B	3.57	131.35	124.68
18	F	301	CLA	CMB-C2B-C1B	-3.56	122.99	128.46
18	F	304	CLA	CMB-C2B-C1B	-3.56	123.00	128.46
18	A	823	CLA	CMB-C2B-C3B	3.55	131.32	124.68
25	2	601	CHL	C1B-CHB-C4A	-3.55	123.09	130.12
18	5	613	CLA	CMB-C2B-C1B	-3.54	123.02	128.46
27	5	620	XAT	C38-C25-C26	-3.54	116.32	122.26
27	2	620	XAT	C4-C3-C2	-3.54	103.93	110.77
18	5	604	CLA	CMB-C2B-C3B	3.54	131.30	124.68
18	A	806	CLA	CMB-C2B-C3B	3.54	131.30	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	B	836	CLA	CMB-C2B-C3B	3.54	131.29	124.68
25	5	608	CHL	C1-C2-C3	-3.53	121.03	126.75
18	B	813	CLA	CMB-C2B-C3B	3.53	131.28	124.68
18	6	611	CLA	CAB-C3B-C4B	-3.53	123.04	128.46
25	6	607	CHL	CAC-C3C-C4C	3.53	129.38	124.81
18	A	829	CLA	CMB-C2B-C3B	3.52	131.26	124.68
18	A	808	CLA	CMB-C2B-C3B	3.52	131.26	124.68
25	2	616	CHL	CHD-C4C-C3C	-3.51	119.68	124.84
25	2	608	CHL	C1B-CHB-C4A	-3.51	123.17	130.12
25	2	608	CHL	CAC-C3C-C4C	3.51	129.36	124.81
18	A	827	CLA	CMB-C2B-C3B	3.51	131.24	124.68
18	A	835	CLA	CMB-C2B-C1B	-3.50	123.08	128.46
18	A	811	CLA	CMB-C2B-C3B	3.50	131.23	124.68
25	5	615	CHL	C2D-C1D-ND	3.50	112.68	110.10
18	B	811	CLA	CAB-C3B-C4B	-3.50	123.09	128.46
18	B	816	CLA	CMB-C2B-C1B	-3.49	123.10	128.46
25	2	608	CHL	CHD-C4C-C3C	-3.48	119.72	124.84
18	B	824	CLA	CMB-C2B-C1B	-3.48	123.11	128.46
18	B	840	CLA	O2D-CGD-O1D	-3.48	117.03	123.84
18	A	815	CLA	CMB-C2B-C1B	-3.48	123.12	128.46
18	G	204	CLA	CMB-C2B-C1B	-3.48	123.12	128.46
18	B	805	CLA	CMB-C2B-C1B	-3.47	123.12	128.46
18	3	604	CLA	CAB-C3B-C4B	-3.47	123.12	128.46
18	5	612	CLA	CMB-C2B-C1B	-3.47	123.13	128.46
18	6	613	CLA	CMB-C2B-C1B	-3.46	123.15	128.46
18	A	822	CLA	CAB-C3B-C4B	-3.46	123.15	128.46
26	2	619	LUT	C4-C5-C6	-3.45	113.15	120.85
25	5	615	CHL	C3B-C4B-NB	3.45	113.67	109.21
27	2	620	XAT	C30-C31-C32	-3.44	112.47	123.22
25	3	608	CHL	C3B-C4B-NB	3.44	113.66	109.21
25	3	608	CHL	C2D-C1D-ND	3.44	112.64	110.10
25	2	606	CHL	CAC-C3C-C4C	3.44	129.27	124.81
27	6	619	XAT	C38-C25-C24	3.43	118.14	114.28
18	2	612	CLA	CMB-C2B-C1B	-3.43	123.19	128.46
25	2	606	CHL	C3D-C4D-ND	3.43	115.78	110.24
18	3	611	CLA	CMB-C2B-C1B	-3.43	123.20	128.46
18	5	610	CLA	CMB-C2B-C1B	-3.43	123.20	128.46
25	5	608	CHL	C3B-C4B-NB	3.42	113.64	109.21
18	A	801	CLA	CMB-C2B-C1B	-3.42	123.20	128.46
18	6	614	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
18	A	824	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
18	B	818	CLA	CMB-C2B-C1B	-3.42	123.21	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	5	603	CLA	CMB-C2B-C1B	-3.42	123.21	128.46
18	5	613	CLA	O2D-CGD-O1D	-3.42	117.16	123.84
26	2	619	LUT	C15-C35-C34	-3.42	116.48	123.47
18	B	833	CLA	CMB-C2B-C3B	3.41	131.07	124.68
18	A	840	CLA	CMB-C2B-C1B	-3.41	123.22	128.46
18	L	304	CLA	CMB-C2B-C3B	3.41	131.06	124.68
18	A	818	CLA	CMB-C2B-C3B	3.41	131.06	124.68
18	A	819	CLA	CMB-C2B-C3B	3.41	131.06	124.68
27	6	619	XAT	C10-C11-C12	-3.41	112.58	123.22
18	6	606	CLA	O2D-CGD-O1D	-3.40	117.19	123.84
27	2	620	XAT	C11-C10-C9	-3.40	122.46	127.31
18	B	837	CLA	CMB-C2B-C1B	-3.40	123.24	128.46
26	2	619	LUT	C10-C11-C12	-3.40	112.62	123.22
18	2	614	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
25	6	601	CHL	C1B-CHB-C4A	-3.39	123.40	130.12
18	G	203	CLA	CMB-C2B-C1B	-3.39	123.25	128.46
25	3	608	CHL	C3D-C4D-ND	3.39	115.72	110.24
18	3	607	CLA	CMB-C2B-C1B	-3.39	123.26	128.46
25	5	615	CHL	C3D-C4D-ND	3.39	115.71	110.24
18	A	843	CLA	CMB-C2B-C1B	-3.38	123.26	128.46
25	5	606	CHL	C3D-C4D-ND	3.38	115.71	110.24
18	A	802	CLA	CMB-C2B-C3B	3.38	131.00	124.68
18	B	808	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
18	B	821	CLA	CMB-C2B-C1B	-3.38	123.27	128.46
18	A	839	CLA	CMB-C2B-C3B	3.38	130.99	124.68
18	B	823	CLA	CMB-C2B-C3B	3.38	130.99	124.68
18	A	831	CLA	O2D-CGD-O1D	-3.37	117.24	123.84
18	3	617	CLA	CMB-C2B-C3B	3.37	130.99	124.68
18	6	609	CLA	CMB-C2B-C1B	-3.37	123.29	128.46
18	F	303	CLA	CMB-C2B-C1B	-3.37	123.29	128.46
18	A	841	CLA	CMB-C2B-C1B	-3.36	123.30	128.46
18	A	821	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
18	5	611	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
18	B	840	CLA	CMB-C2B-C1B	-3.35	123.31	128.46
18	L	303	CLA	CMB-C2B-C1B	-3.35	123.32	128.46
18	6	604	CLA	CMB-C2B-C1B	-3.35	123.32	128.46
18	3	613	CLA	CMB-C2B-C1B	-3.34	123.32	128.46
25	6	601	CHL	C3D-C4D-ND	3.34	115.65	110.24
18	A	824	CLA	O2D-CGD-O1D	-3.34	117.30	123.84
25	5	606	CHL	C1D-ND-C4D	-3.34	103.96	106.33
18	2	613	CLA	CMB-C2B-C1B	-3.34	123.33	128.46
18	B	828	CLA	CMB-C2B-C1B	-3.34	123.33	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	2	616	CHL	C2D-C1D-ND	3.34	112.56	110.10
18	A	810	CLA	CMB-C2B-C1B	-3.34	123.34	128.46
25	2	608	CHL	C3D-C4D-ND	3.34	115.63	110.24
18	A	825	CLA	CMB-C2B-C1B	-3.33	123.34	128.46
18	B	834	CLA	CMB-C2B-C1B	-3.33	123.34	128.46
18	6	608	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
18	A	830	CLA	CMB-C2B-C3B	3.33	130.90	124.68
18	A	854	CLA	CMB-C2B-C3B	3.33	130.90	124.68
18	5	601	CLA	CMB-C2B-C1B	-3.33	123.35	128.46
25	2	616	CHL	C3B-C4B-NB	3.32	113.50	109.21
18	B	838	CLA	CMB-C2B-C3B	3.32	130.88	124.68
18	6	611	CLA	CMB-C2B-C1B	-3.31	123.37	128.46
18	2	603	CLA	CMB-C2B-C1B	-3.31	123.37	128.46
18	A	835	CLA	O2D-CGD-O1D	-3.31	117.36	123.84
18	A	822	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
18	A	804	CLA	CMB-C2B-C3B	3.31	130.87	124.68
18	6	612	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
18	3	604	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
18	3	612	CLA	CMB-C2B-C1B	-3.31	123.38	128.46
25	2	607	CHL	C3D-C4D-ND	3.31	115.58	110.24
18	B	841	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
18	6	616	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
18	6	602	CLA	O2D-CGD-O1D	-3.30	117.39	123.84
18	6	606	CLA	CMB-C2B-C1B	-3.30	123.39	128.46
18	B	802	CLA	CMB-C2B-C1B	-3.29	123.40	128.46
18	J	101	CLA	CMB-C2B-C1B	-3.29	123.40	128.46
18	A	812	CLA	CMB-C2B-C1B	-3.29	123.41	128.46
18	B	832	CLA	CMB-C2B-C3B	3.29	130.83	124.68
25	5	608	CHL	C1D-ND-C4D	-3.29	104.00	106.33
25	6	601	CHL	C3B-C4B-NB	3.29	113.46	109.21
18	A	805	CLA	O2D-CGD-O1D	-3.29	117.41	123.84
18	B	820	CLA	CMB-C2B-C3B	3.29	130.82	124.68
24	2	618	LMG	O6-C1-O1	-3.28	103.36	110.97
18	K	203	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
18	B	811	CLA	CMB-C2B-C1B	-3.28	123.42	128.46
18	A	838	CLA	CMB-C2B-C1B	-3.28	123.43	128.46
18	B	817	CLA	CMB-C2B-C1B	-3.28	123.43	128.46
18	6	610	CLA	CMB-C2B-C3B	3.28	130.81	124.68
25	2	601	CHL	C3D-C4D-ND	3.27	115.53	110.24
18	A	842	CLA	CMB-C2B-C1B	-3.27	123.43	128.46
18	3	615	CLA	CMB-C2B-C1B	-3.27	123.44	128.46
18	B	825	CLA	CMB-C2B-C3B	3.27	130.79	124.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	L	302	CLA	CMB-C2B-C3B	3.27	130.79	124.68
24	2	617	LMG	O6-C1-O1	-3.26	103.41	110.97
18	6	616	CLA	O2D-CGD-O1D	-3.26	117.47	123.84
18	B	837	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
18	B	824	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
18	B	832	CLA	O2D-CGD-O1D	-3.25	117.48	123.84
26	3	618	LUT	C18-C5-C4	-3.25	108.34	114.36
18	B	830	CLA	CMB-C2B-C3B	3.24	130.75	124.68
18	K	204	CLA	CMB-C2B-C1B	-3.24	123.49	128.46
18	A	831	CLA	CMB-C2B-C3B	3.23	130.73	124.68
18	3	610	CLA	CMB-C2B-C3B	3.23	130.73	124.68
18	3	609	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
18	A	820	CLA	O2D-CGD-O1D	-3.23	117.53	123.84
18	B	812	CLA	CMB-C2B-C3B	3.22	130.71	124.68
18	5	602	CLA	CMB-C2B-C1B	-3.22	123.52	128.46
18	B	806	CLA	CMB-C2B-C3B	3.21	130.69	124.68
18	G	201	CLA	CMB-C2B-C1B	-3.21	123.53	128.46
18	3	609	CLA	CMB-C2B-C3B	3.21	130.69	124.68
25	2	601	CHL	CHD-C4C-C3C	-3.21	120.12	124.84
18	2	610	CLA	CMB-C2B-C3B	3.21	130.68	124.68
20	A	847	LHG	O8-C23-C24	3.21	119.79	111.38
18	A	834	CLA	CMB-C2B-C1B	-3.21	123.54	128.46
18	B	804	CLA	CMB-C2B-C3B	3.20	130.67	124.68
18	B	826	CLA	CMB-C2B-C3B	3.20	130.67	124.68
18	A	845	CLA	CMB-C2B-C1B	-3.20	123.55	128.46
26	5	619	LUT	C18-C5-C4	-3.20	108.43	114.36
18	B	803	CLA	CMB-C2B-C3B	3.20	130.66	124.68
18	3	603	CLA	CMB-C2B-C1B	-3.20	123.55	128.46
25	3	608	CHL	C1D-ND-C4D	-3.20	104.06	106.33
27	6	619	XAT	C35-C15-C14	-3.19	116.93	123.47
18	A	821	CLA	O2D-CGD-O1D	-3.19	117.60	123.84
18	2	604	CLA	O2D-CGD-O1D	-3.19	117.60	123.84
25	6	607	CHL	C4A-NA-C1A	3.19	108.14	106.71
26	5	619	LUT	C2-C3-C4	3.19	114.67	110.30
18	A	807	CLA	CMB-C2B-C3B	3.19	130.64	124.68
25	6	607	CHL	C3D-C4D-ND	3.19	115.39	110.24
18	2	611	CLA	CMB-C2B-C3B	3.19	130.64	124.68
18	B	838	CLA	O2D-CGD-O1D	-3.18	117.61	123.84
25	5	615	CHL	C1D-ND-C4D	-3.18	104.08	106.33
18	B	810	CLA	CMB-C2B-C1B	-3.18	123.58	128.46
25	5	608	CHL	C3D-C4D-ND	3.18	115.38	110.24
18	B	825	CLA	O2D-CGD-O1D	-3.17	117.63	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	818	CLA	O2D-CGD-O1D	-3.17	117.63	123.84
25	2	616	CHL	C3D-C4D-ND	3.17	115.37	110.24
25	2	608	CHL	C2D-C1D-ND	3.17	112.44	110.10
27	6	619	XAT	C4-C3-C2	-3.17	104.65	110.77
18	6	602	CLA	CMB-C2B-C3B	3.17	130.61	124.68
18	3	614	CLA	CMB-C2B-C1B	-3.16	123.60	128.46
18	A	832	CLA	CMB-C2B-C3B	3.16	130.58	124.68
18	B	822	CLA	O2D-CGD-O1D	-3.16	117.67	123.84
18	B	815	CLA	CMB-C2B-C1B	-3.15	123.62	128.46
18	B	814	CLA	CMB-C2B-C3B	3.15	130.58	124.68
26	6	617	LUT	C18-C5-C4	-3.15	108.52	114.36
18	B	822	CLA	CMB-C2B-C3B	3.15	130.57	124.68
21	B	847	BCR	C15-C16-C17	-3.15	117.03	123.47
18	A	820	CLA	CMB-C2B-C3B	3.15	130.57	124.68
18	B	817	CLA	O2D-CGD-O1D	-3.14	117.69	123.84
23	B	850	DGD	O5D-C6D-C5D	-3.14	103.23	109.05
25	6	601	CHL	C2D-C1D-ND	3.14	112.42	110.10
18	K	206	CLA	CMB-C2B-C1B	-3.14	123.64	128.46
18	B	820	CLA	O2D-CGD-O1D	-3.14	117.70	123.84
18	B	826	CLA	O2D-CGD-O1D	-3.14	117.71	123.84
18	B	808	CLA	O2D-CGD-O1D	-3.13	117.71	123.84
18	B	807	CLA	CMB-C2B-C3B	3.13	130.54	124.68
18	6	604	CLA	O2D-CGD-O1D	-3.13	117.73	123.84
18	A	840	CLA	O2D-CGD-O1D	-3.12	117.73	123.84
18	B	807	CLA	O2D-CGD-O1D	-3.12	117.74	123.84
18	A	804	CLA	O2D-CGD-O1D	-3.11	117.75	123.84
26	6	617	LUT	C21-C26-C27	-3.11	108.77	112.70
18	A	836	CLA	CMB-C2B-C3B	3.10	130.48	124.68
18	A	837	CLA	O2D-CGD-O1D	-3.10	117.78	123.84
18	A	828	CLA	CMB-C2B-C3B	3.09	130.47	124.68
25	2	607	CHL	CHD-C4C-C3C	-3.09	120.30	124.84
23	B	850	DGD	O6D-C1D-O3G	-3.09	102.66	109.97
18	B	805	CLA	O2D-CGD-O1D	-3.09	117.80	123.84
26	2	619	LUT	C35-C34-C33	-3.09	122.91	127.31
25	2	608	CHL	C3B-C4B-NB	3.09	113.20	109.21
18	A	817	CLA	CMB-C2B-C3B	3.09	130.45	124.68
18	B	819	CLA	CMB-C2B-C3B	3.09	130.45	124.68
27	3	619	XAT	C4-C3-C2	-3.08	104.82	110.77
18	2	610	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
18	5	601	CLA	O2D-CGD-O1D	-3.08	117.82	123.84
18	A	813	CLA	CMB-C2B-C3B	3.07	130.43	124.68
18	B	811	CLA	O2D-CGD-O1D	-3.07	117.83	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	809	CLA	O2D-CGD-O1D	-3.07	117.84	123.84
25	5	607	CHL	CAC-C3C-C4C	3.06	128.78	124.81
18	B	804	CLA	O2D-CGD-O1D	-3.06	117.85	123.84
18	2	602	CLA	CMB-C2B-C3B	3.06	130.40	124.68
18	F	305	CLA	CMB-C2B-C3B	3.05	130.39	124.68
21	K	202	BCR	C24-C23-C22	-3.05	121.62	126.23
18	2	609	CLA	CMB-C2B-C3B	3.05	130.38	124.68
26	3	618	LUT	C4-C5-C6	-3.05	114.06	120.85
27	3	619	XAT	O4-C5-C4	3.04	115.67	113.38
25	6	601	CHL	CAC-C3C-C4C	3.04	128.76	124.81
21	J	103	BCR	C7-C8-C9	-3.04	121.64	126.23
18	B	809	CLA	CMB-C2B-C3B	3.04	130.36	124.68
26	5	619	LUT	C4-C5-C6	-3.04	114.08	120.85
18	A	823	CLA	O2D-CGD-O1D	-3.03	117.91	123.84
27	5	620	XAT	O24-C25-C38	3.03	118.69	115.06
18	3	606	CLA	CMB-C2B-C3B	3.03	130.35	124.68
18	A	832	CLA	O2D-CGD-O1D	-3.03	117.91	123.84
21	J	102	BCR	C15-C16-C17	-3.03	117.27	123.47
18	3	602	CLA	O2D-CGD-O1D	-3.03	117.92	123.84
18	A	802	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
18	A	811	CLA	O2D-CGD-O1D	-3.02	117.93	123.84
18	B	829	CLA	CMB-C2B-C3B	3.02	130.33	124.68
18	3	602	CLA	CMB-C2B-C3B	3.02	130.32	124.68
18	B	810	CLA	O2D-CGD-O1D	-3.02	117.94	123.84
25	2	607	CHL	C3B-C4B-NB	3.02	113.11	109.21
18	A	803	CLA	C1B-CHB-C4A	-3.01	124.15	130.12
18	A	854	CLA	O2D-CGD-O1D	-3.01	117.95	123.84
25	5	607	CHL	C3D-C4D-ND	3.01	115.11	110.24
18	5	602	CLA	O2D-CGD-O1D	-3.01	117.96	123.84
25	2	606	CHL	CHB-C4A-NA	3.01	128.67	124.51
18	B	829	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
27	2	620	XAT	C15-C14-C13	-3.00	123.03	127.31
21	K	207	BCR	C15-C16-C17	-3.00	117.33	123.47
18	B	827	CLA	O2D-CGD-O1D	-3.00	117.97	123.84
27	6	619	XAT	C30-C31-C32	-3.00	113.86	123.22
18	6	603	CLA	CMB-C2B-C3B	3.00	130.29	124.68
18	B	830	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
18	A	803	CLA	O2D-CGD-O1D	-3.00	117.98	123.84
18	A	827	CLA	O2D-CGD-O1D	-2.99	117.99	123.84
25	3	608	CHL	C1B-CHB-C4A	-2.99	124.20	130.12
18	B	835	CLA	CMB-C2B-C3B	2.99	130.27	124.68
18	L	304	CLA	O2D-CGD-O1D	-2.99	118.00	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	828	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
18	B	841	CLA	O2D-CGD-O1D	-2.99	118.00	123.84
26	3	618	LUT	C2-C3-C4	2.99	114.39	110.30
25	6	607	CHL	CMD-C2D-C3D	-2.99	120.74	127.61
18	A	835	CLA	CMB-C2B-C3B	2.98	130.26	124.68
18	5	614	CLA	CMB-C2B-C3B	2.98	130.25	124.68
18	B	818	CLA	O2D-CGD-O1D	-2.98	118.02	123.84
18	B	831	CLA	CMB-C2B-C3B	2.98	130.25	124.68
18	B	839	CLA	CMB-C2B-C3B	2.97	130.24	124.68
18	A	839	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
18	J	101	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
18	F	304	CLA	CMB-C2B-C3B	2.97	130.24	124.68
18	A	838	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
18	2	602	CLA	O2D-CGD-O1D	-2.97	118.03	123.84
18	5	614	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
18	2	609	CLA	O2D-CGD-O1D	-2.97	118.04	123.84
18	B	813	CLA	O2D-CGD-O1D	-2.96	118.04	123.84
18	B	828	CLA	O2D-CGD-O1D	-2.96	118.04	123.84
18	K	203	CLA	O2D-CGD-O1D	-2.96	118.05	123.84
18	B	833	CLA	O2D-CGD-O1D	-2.96	118.06	123.84
26	2	619	LUT	C18-C5-C4	-2.96	108.88	114.36
18	A	819	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
18	B	815	CLA	O2D-CGD-O1D	-2.95	118.06	123.84
26	3	618	LUT	C20-C13-C14	-2.95	118.79	122.92
18	A	813	CLA	O2D-CGD-O1D	-2.95	118.07	123.84
18	F	301	CLA	CMB-C2B-C3B	2.95	130.20	124.68
26	5	619	LUT	C7-C8-C9	-2.95	121.78	126.23
18	A	816	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
18	A	814	CLA	O2D-CGD-O1D	-2.95	118.08	123.84
18	B	835	CLA	O2D-CGD-O1D	-2.94	118.08	123.84
25	5	608	CHL	CAC-C3C-C4C	2.94	128.63	124.81
18	B	823	CLA	O2D-CGD-O1D	-2.94	118.09	123.84
18	A	837	CLA	CMB-C2B-C3B	2.94	130.18	124.68
21	J	102	BCR	C7-C8-C9	-2.94	121.80	126.23
18	B	812	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
18	L	302	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
18	A	825	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
18	B	834	CLA	O2D-CGD-O1D	-2.93	118.11	123.84
18	A	836	CLA	O2D-CGD-O1D	-2.93	118.12	123.84
18	B	821	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
18	A	834	CLA	O2D-CGD-O1D	-2.92	118.13	123.84
18	A	812	CLA	O2D-CGD-O1D	-2.92	118.14	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	833	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
18	A	805	CLA	CHB-C4A-NA	2.91	128.54	124.51
18	K	201	CLA	O2D-CGD-O1D	-2.91	118.14	123.84
18	2	612	CLA	O2D-CGD-O1D	-2.91	118.15	123.84
18	B	824	CLA	CMB-C2B-C3B	2.91	130.12	124.68
27	5	620	XAT	C4-C3-C2	-2.91	105.16	110.77
18	L	303	CLA	O2D-CGD-O1D	-2.91	118.16	123.84
25	3	608	CHL	CAC-C3C-C4C	2.90	128.57	124.81
18	2	603	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
18	A	815	CLA	CMB-C2B-C3B	2.90	130.10	124.68
25	2	601	CHL	C4A-NA-C1A	2.90	108.01	106.71
18	A	826	CLA	O2D-CGD-O1D	-2.90	118.17	123.84
25	2	601	CHL	CAC-C3C-C4C	2.89	128.56	124.81
18	6	613	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
18	A	801	CLA	CMB-C2B-C3B	2.89	130.08	124.68
18	B	831	CLA	O2D-CGD-O1D	-2.89	118.19	123.84
18	A	808	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
18	A	806	CLA	O2D-CGD-O1D	-2.88	118.20	123.84
25	2	606	CHL	CMD-C2D-C3D	-2.88	120.99	127.61
18	5	613	CLA	CMB-C2B-C3B	2.88	130.07	124.68
18	3	611	CLA	CMB-C2B-C3B	2.88	130.06	124.68
27	2	620	XAT	C6-C7-C8	-2.88	119.91	125.99
25	2	608	CHL	CMD-C2D-C3D	-2.87	121.00	127.61
25	5	606	CHL	CMD-C2D-C3D	-2.87	121.00	127.61
18	B	816	CLA	CMB-C2B-C3B	2.87	130.04	124.68
25	2	608	CHL	C1D-ND-C4D	-2.86	104.30	106.33
21	5	621	BCR	C33-C5-C6	-2.86	121.32	124.53
25	3	608	CHL	CMD-C2D-C3D	-2.86	121.04	127.61
25	2	607	CHL	CMD-C2D-C3D	-2.86	121.04	127.61
18	K	206	CLA	O2D-CGD-O1D	-2.86	118.26	123.84
21	5	621	BCR	C15-C16-C17	-2.85	117.64	123.47
18	A	822	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
27	2	620	XAT	C35-C15-C14	-2.85	117.64	123.47
21	A	851	BCR	C24-C23-C22	-2.85	121.93	126.23
18	3	610	CLA	O2D-CGD-O1D	-2.85	118.27	123.84
25	2	601	CHL	C2D-C1D-ND	2.84	112.20	110.10
18	G	204	CLA	CMB-C2B-C3B	2.84	130.00	124.68
18	2	611	CLA	CBD-CHA-C1A	2.84	131.98	127.43
18	G	201	CLA	O2D-CGD-O1D	-2.84	118.29	123.84
25	5	615	CHL	CMD-C2D-C3D	-2.84	121.08	127.61
18	5	612	CLA	CMB-C2B-C3B	2.84	129.98	124.68
18	B	809	CLA	O2D-CGD-O1D	-2.83	118.30	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	F	303	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
18	B	836	CLA	O2D-CGD-O1D	-2.83	118.30	123.84
18	5	610	CLA	CMB-C2B-C3B	2.83	129.98	124.68
18	F	304	CLA	O2D-CGD-O1D	-2.83	118.31	123.84
25	2	616	CHL	CMD-C2D-C3D	-2.83	121.11	127.61
25	5	608	CHL	O2A-CGA-CBA	2.83	120.77	111.91
18	B	819	CLA	O2D-CGD-O1D	-2.82	118.32	123.84
18	A	854	CLA	C1B-CHB-C4A	-2.82	124.53	130.12
18	5	603	CLA	CMB-C2B-C3B	2.82	129.95	124.68
18	A	824	CLA	CMB-C2B-C3B	2.82	129.95	124.68
18	5	610	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
18	F	305	CLA	O2D-CGD-O1D	-2.82	118.33	123.84
18	A	840	CLA	CMB-C2B-C3B	2.82	129.94	124.68
18	2	614	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
18	5	612	CLA	O2D-CGD-O1D	-2.81	118.34	123.84
18	B	802	CLA	CMB-C2B-C3B	2.81	129.93	124.68
18	F	301	CLA	O2D-CGD-O1D	-2.81	118.35	123.84
18	A	801	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
18	6	612	CLA	O2D-CGD-O1D	-2.80	118.36	123.84
23	B	850	DGD	CDB-CCB-CBB	-2.80	100.21	114.42
18	6	613	CLA	CMB-C2B-C3B	2.80	129.91	124.68
18	5	613	CLA	O2D-CGD-CBD	2.80	116.24	111.27
21	K	202	BCR	C15-C14-C13	-2.80	123.32	127.31
18	A	829	CLA	O2D-CGD-O1D	-2.80	118.37	123.84
18	A	830	CLA	O2D-CGD-O1D	-2.79	118.39	123.84
18	6	609	CLA	CAB-C3B-C2B	2.79	130.15	124.69
18	2	614	CLA	CMB-C2B-C3B	2.79	129.89	124.68
18	6	614	CLA	O2D-CGD-O1D	-2.79	117.77	124.09
18	A	841	CLA	CMB-C2B-C3B	2.78	129.89	124.68
21	K	202	BCR	C15-C16-C17	-2.78	117.77	123.47
18	5	604	CLA	O2D-CGD-O1D	-2.78	118.39	123.84
27	6	619	XAT	C15-C14-C13	-2.78	123.34	127.31
25	2	616	CHL	C1D-ND-C4D	-2.78	104.36	106.33
18	B	805	CLA	CMB-C2B-C3B	2.78	129.88	124.68
18	B	813	CLA	CAC-C3C-C4C	2.78	128.42	124.81
18	6	609	CLA	O2D-CGD-O1D	-2.78	118.40	123.84
25	6	601	CHL	CMD-C2D-C3D	-2.78	121.22	127.61
18	6	604	CLA	CMB-C2B-C3B	2.78	129.88	124.68
18	6	603	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
18	L	303	CLA	CMB-C2B-C3B	2.78	129.88	124.68
18	K	204	CLA	O2D-CGD-O1D	-2.78	118.41	123.84
18	A	843	CLA	O2D-CGD-O1D	-2.78	118.41	123.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	2	613	CLA	O2D-CGD-O1D	-2.77	118.41	123.84
18	6	614	CLA	CAB-C3B-C2B	2.77	130.12	124.69
18	K	201	CLA	C1B-CHB-C4A	-2.77	124.63	130.12
18	F	303	CLA	CMB-C2B-C3B	2.77	129.86	124.68
25	2	607	CHL	C2D-C1D-ND	2.77	112.15	110.10
25	2	601	CHL	CMD-C2D-C3D	-2.77	121.24	127.61
18	A	842	CLA	O2D-CGD-O1D	-2.77	117.80	124.09
18	5	611	CLA	O2D-CGD-O1D	-2.77	118.43	123.84
18	2	612	CLA	CMB-C2B-C3B	2.76	129.85	124.68
18	B	808	CLA	CMB-C2B-C3B	2.76	129.84	124.68
18	B	821	CLA	CMB-C2B-C3B	2.76	129.84	124.68
18	G	203	CLA	CMB-C2B-C3B	2.76	129.83	124.68
18	2	603	CLA	CMB-C2B-C3B	2.75	129.83	124.68
25	6	601	CHL	CMB-C2B-C3B	2.75	129.83	124.68
18	2	613	CLA	CMB-C2B-C3B	2.75	129.82	124.68
18	B	840	CLA	CMB-C2B-C3B	2.75	129.81	124.68
18	A	815	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
18	A	810	CLA	O2D-CGD-O1D	-2.74	118.47	123.84
18	A	825	CLA	CMB-C2B-C3B	2.74	129.81	124.68
18	3	612	CLA	O2D-CGD-O1D	-2.74	118.48	123.84
21	B	847	BCR	C15-C14-C13	-2.74	123.40	127.31
18	A	841	CLA	O2D-CGD-O1D	-2.74	118.49	123.84
18	3	617	CLA	O2D-CGD-O1D	-2.73	117.88	124.09
25	6	601	CHL	C1D-ND-C4D	-2.73	104.39	106.33
18	B	803	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
18	2	604	CLA	CHB-C4A-NA	2.73	128.29	124.51
18	6	614	CLA	CMB-C2B-C3B	2.73	130.03	124.69
18	A	845	CLA	O2D-CGD-O1D	-2.73	118.50	123.84
18	J	101	CLA	CMB-C2B-C3B	2.73	129.78	124.68
18	B	837	CLA	CMB-C2B-C3B	2.73	129.78	124.68
18	G	203	CLA	O2D-CGD-O1D	-2.73	118.51	123.84
18	3	611	CLA	CHB-C4A-NA	2.73	128.28	124.51
18	3	613	CLA	CMB-C2B-C3B	2.72	129.77	124.68
25	5	607	CHL	C3B-C4B-NB	2.72	112.73	109.21
18	A	810	CLA	CMB-C2B-C3B	2.72	129.77	124.68
18	A	821	CLA	CMB-C2B-C3B	2.72	129.77	124.68
18	B	806	CLA	O2D-CGD-O1D	-2.72	118.52	123.84
21	A	852	BCR	C33-C5-C6	-2.72	121.48	124.53
18	6	616	CLA	CAB-C3B-C2B	2.72	130.01	124.69
24	J	104	LMG	O6-C1-O1	-2.71	103.55	109.97
18	G	203	CLA	C1-C2-C3	-2.71	122.36	126.75
18	K	204	CLA	CAB-C3B-C2B	2.71	129.99	124.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	843	BCR	C27-C26-C25	2.71	126.66	122.73
25	5	607	CHL	CMD-C2D-C3D	-2.71	121.39	127.61
18	K	203	CLA	CMB-C2B-C3B	2.71	129.74	124.68
21	J	102	BCR	C15-C14-C13	-2.71	123.45	127.31
21	A	852	BCR	C15-C16-C17	-2.71	117.93	123.47
27	3	619	XAT	C30-C31-C32	-2.70	114.78	123.22
25	2	606	CHL	C2A-C1A-CHA	-2.70	119.13	123.86
18	3	615	CLA	CMB-C2B-C3B	2.70	129.74	124.68
21	L	305	BCR	C15-C16-C17	-2.70	117.94	123.47
18	B	841	CLA	CMB-C2B-C3B	2.70	129.73	124.68
18	A	838	CLA	CMB-C2B-C3B	2.70	129.73	124.68
18	B	828	CLA	CMB-C2B-C3B	2.70	129.72	124.68
21	2	621	BCR	C24-C23-C22	-2.70	122.16	126.23
18	A	843	CLA	CMB-C2B-C3B	2.69	129.72	124.68
18	3	607	CLA	CAB-C3B-C2B	2.69	129.96	124.69
25	6	607	CHL	C3B-C4B-NB	2.69	112.69	109.21
18	5	601	CLA	CMB-C2B-C3B	2.69	129.71	124.68
20	5	622	LHG	O8-C23-C24	2.69	120.35	111.91
18	6	606	CLA	CMB-C2B-C3B	2.69	129.71	124.68
18	6	612	CLA	CMB-C2B-C3B	2.68	129.70	124.68
21	2	621	BCR	C15-C16-C17	-2.68	117.98	123.47
18	B	818	CLA	CMB-C2B-C3B	2.68	129.70	124.68
20	6	620	LHG	O8-C23-C24	2.68	120.32	111.91
27	3	619	XAT	C19-C9-C8	2.68	122.30	118.08
18	A	842	CLA	CMB-C2B-C3B	2.68	129.69	124.68
18	B	834	CLA	CMB-C2B-C3B	2.68	129.69	124.68
18	3	607	CLA	CMB-C2B-C3B	2.68	129.93	124.69
18	B	804	CLA	CHB-C4A-NA	2.68	128.22	124.51
18	B	817	CLA	CMB-C2B-C3B	2.68	129.69	124.68
21	5	621	BCR	C15-C14-C13	-2.68	123.49	127.31
18	6	608	CLA	O2D-CGD-O1D	-2.68	118.01	124.09
18	A	835	CLA	O2D-CGD-CBD	2.68	116.03	111.27
18	5	611	CLA	C1A-CHA-C4D	-2.68	121.97	125.72
25	5	608	CHL	C1B-CHB-C4A	-2.68	124.82	130.12
18	5	611	CLA	CAB-C3B-C2B	2.67	129.92	124.69
18	3	603	CLA	O2D-CGD-O1D	-2.67	118.62	123.84
25	5	607	CHL	CHD-C4C-C3C	-2.67	120.92	124.84
25	5	606	CHL	CAC-C3C-C4C	2.67	129.10	125.04
25	5	608	CHL	CMD-C2D-C3D	-2.66	121.48	127.61
25	6	607	CHL	CHD-C4C-C3C	-2.66	120.93	124.84
27	5	620	XAT	C15-C14-C13	-2.66	123.51	127.31
25	5	606	CHL	C1B-CHB-C4A	-2.66	124.85	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	608	CLA	CMB-C2B-C3B	2.66	129.66	124.68
21	B	845	BCR	C27-C26-C25	2.66	126.59	122.73
18	3	614	CLA	CAA-C2A-C3A	-2.66	109.90	116.10
21	L	301	BCR	C15-C16-C17	-2.65	118.04	123.47
25	5	608	CHL	C1C-C2C-C3C	-2.65	105.01	107.11
21	3	620	BCR	C3-C4-C5	-2.65	109.34	114.08
18	A	812	CLA	CMB-C2B-C3B	2.65	129.63	124.68
21	A	851	BCR	C27-C26-C25	2.65	126.57	122.73
18	3	603	CLA	CMB-C2B-C3B	2.65	129.63	124.68
18	B	812	CLA	CHB-C4A-NA	2.65	128.17	124.51
25	6	607	CHL	CMB-C2B-C3B	2.64	129.63	124.68
21	J	102	BCR	C27-C26-C25	2.64	126.57	122.73
18	A	841	CLA	C1-C2-C3	-2.64	121.47	126.04
18	F	304	CLA	CAA-C2A-C3A	-2.64	109.93	116.10
18	A	832	CLA	CAA-C2A-C3A	-2.64	109.93	116.10
21	B	846	BCR	C24-C23-C22	-2.64	122.24	126.23
18	5	611	CLA	CMB-C2B-C3B	2.64	129.86	124.69
18	A	845	CLA	CHB-C4A-NA	2.64	128.16	124.51
25	5	607	CHL	O2D-CGD-O1D	-2.64	118.68	123.84
18	B	824	CLA	O2D-CGD-CBD	2.64	115.96	111.27
18	6	611	CLA	CMB-C2B-C3B	2.64	129.85	124.69
21	K	207	BCR	C15-C14-C13	-2.63	123.55	127.31
26	3	618	LUT	C10-C11-C12	-2.63	115.00	123.22
18	3	607	CLA	O2D-CGD-O1D	-2.63	118.11	124.09
18	5	612	CLA	CHB-C4A-NA	2.63	128.15	124.51
18	A	835	CLA	CHB-C4A-NA	2.63	128.15	124.51
18	L	304	CLA	CHB-C4A-NA	2.63	128.14	124.51
18	B	816	CLA	O2D-CGD-O1D	-2.63	118.13	124.09
21	A	849	BCR	C15-C16-C17	-2.62	118.10	123.47
25	2	606	CHL	C1C-C2C-C3C	-2.62	105.03	107.11
18	A	834	CLA	CMB-C2B-C3B	2.62	129.58	124.68
18	A	822	CLA	CAB-C3B-C2B	2.62	129.81	124.69
18	5	602	CLA	CMB-C2B-C3B	2.62	129.57	124.68
21	J	103	BCR	C33-C5-C6	-2.62	121.59	124.53
25	5	615	CHL	CMB-C2B-C3B	2.62	129.57	124.68
21	F	302	BCR	C15-C16-C17	-2.62	118.12	123.47
21	L	301	BCR	C33-C5-C6	-2.61	121.59	124.53
18	6	609	CLA	CMB-C2B-C3B	2.61	129.81	124.69
18	3	614	CLA	CMB-C2B-C3B	2.61	129.56	124.68
18	3	613	CLA	O2D-CGD-O1D	-2.61	118.16	124.09
18	5	613	CLA	CHB-C4A-NA	2.61	128.12	124.51
18	6	611	CLA	CAA-C2A-C3A	-2.61	110.01	116.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	2	619	LUT	C11-C12-C13	-2.61	119.09	126.42
21	L	305	BCR	C33-C5-C6	-2.61	121.60	124.53
18	B	815	CLA	CMB-C2B-C3B	2.61	129.56	124.68
18	2	609	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
21	3	620	BCR	C2-C1-C6	2.61	114.50	110.48
26	6	617	LUT	C1-C6-C7	-2.61	108.40	115.78
18	B	802	CLA	C1B-CHB-C4A	-2.61	124.95	130.12
18	3	612	CLA	CMB-C2B-C3B	2.60	129.55	124.68
20	2	622	LHG	O8-C23-C24	2.60	120.08	111.91
18	6	616	CLA	CMB-C2B-C3B	2.60	129.78	124.69
27	2	620	XAT	O24-C25-C38	2.60	118.17	115.06
21	L	305	BCR	C28-C27-C26	-2.60	109.44	114.08
21	B	846	BCR	C27-C26-C25	2.59	126.50	122.73
26	5	619	LUT	C21-C26-C27	-2.59	109.42	112.70
18	B	802	CLA	O2D-CGD-O1D	-2.59	118.77	123.84
18	B	805	CLA	CHB-C4A-NA	2.59	128.10	124.51
18	B	811	CLA	CAB-C3B-C2B	2.59	129.76	124.69
18	3	604	CLA	CAB-C3B-C2B	2.59	129.76	124.69
18	B	810	CLA	CMB-C2B-C3B	2.59	129.52	124.68
18	B	824	CLA	CHB-C4A-NA	2.59	128.09	124.51
21	A	856	BCR	C15-C16-C17	-2.59	118.18	123.47
21	3	622	BCR	C24-C23-C22	-2.58	122.33	126.23
21	B	848	BCR	C33-C5-C6	-2.58	121.63	124.53
18	K	206	CLA	CMB-C2B-C3B	2.58	129.51	124.68
21	J	102	BCR	C24-C23-C22	-2.58	122.33	126.23
27	3	619	XAT	C31-C30-C29	-2.58	123.62	127.31
18	3	604	CLA	O2D-CGD-O1D	-2.58	118.23	124.09
25	2	606	CHL	CMB-C2B-C3B	2.58	129.51	124.68
18	A	817	CLA	CAA-C2A-C3A	-2.58	110.08	116.10
18	A	823	CLA	CHB-C4A-NA	2.58	128.08	124.51
18	6	611	CLA	O2D-CGD-O1D	-2.58	118.23	124.09
18	A	802	CLA	CHB-C4A-NA	2.58	128.08	124.51
18	B	814	CLA	O2D-CGD-O1D	-2.58	118.24	124.09
21	K	207	BCR	C24-C23-C22	-2.58	122.34	126.23
27	2	620	XAT	C20-C13-C12	2.58	122.14	118.08
18	B	827	CLA	C1B-CHB-C4A	-2.58	125.02	130.12
18	6	612	CLA	CHB-C4A-NA	2.57	128.07	124.51
18	6	611	CLA	CAB-C3B-C2B	2.57	129.73	124.69
18	A	829	CLA	C1-C2-C3	-2.57	121.59	126.04
18	A	822	CLA	CHB-C4A-NA	2.57	128.07	124.51
18	B	813	CLA	CHB-C4A-NA	2.57	128.07	124.51
18	A	805	CLA	O2D-CGD-CBD	2.57	115.84	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	835	CLA	C1B-CHB-C4A	-2.57	125.03	130.12
18	A	845	CLA	CMB-C2B-C3B	2.57	129.48	124.68
18	B	839	CLA	CHB-C4A-NA	2.57	128.06	124.51
18	5	604	CLA	CHB-C4A-NA	2.57	128.06	124.51
25	5	607	CHL	CMB-C2B-C3B	2.56	129.47	124.68
20	A	846	LHG	C11-C10-C9	-2.56	101.41	114.42
18	3	603	CLA	C1B-CHB-C4A	-2.56	125.04	130.12
23	B	850	DGD	C3G-C2G-C1G	-2.56	105.73	111.79
18	A	804	CLA	CHB-C4A-NA	2.56	128.05	124.51
20	A	846	LHG	O8-C23-C24	2.56	119.94	111.91
18	6	606	CLA	O2D-CGD-CBD	2.56	115.82	111.27
25	2	607	CHL	CMB-C2B-C3B	2.56	129.47	124.68
18	K	204	CLA	CMB-C2B-C3B	2.56	129.70	124.69
18	2	609	CLA	CHB-C4A-NA	2.56	128.05	124.51
18	B	828	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
18	6	614	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
27	2	620	XAT	C39-C29-C28	2.56	122.11	118.08
18	K	204	CLA	CHB-C4A-NA	2.56	128.05	124.51
18	6	610	CLA	C1B-CHB-C4A	-2.56	125.05	130.12
21	K	207	BCR	C3-C4-C5	-2.56	109.51	114.08
21	A	851	BCR	C33-C5-C6	-2.55	121.66	124.53
18	3	609	CLA	CHB-C4A-NA	2.55	128.04	124.51
18	B	803	CLA	CHB-C4A-NA	2.55	128.04	124.51
18	3	612	CLA	CHB-C4A-NA	2.55	128.04	124.51
18	G	201	CLA	CMB-C2B-C3B	2.55	129.45	124.68
18	A	814	CLA	CHB-C4A-NA	2.55	128.04	124.51
18	A	831	CLA	O2D-CGD-CBD	2.55	115.80	111.27
21	B	848	BCR	C7-C8-C9	-2.55	122.39	126.23
21	G	205	BCR	C24-C23-C22	-2.55	122.39	126.23
18	3	604	CLA	CMB-C2B-C3B	2.54	129.67	124.69
18	B	811	CLA	CMB-C2B-C3B	2.54	129.66	124.69
18	A	854	CLA	C1-C2-C3	-2.54	121.65	126.04
18	B	806	CLA	CHB-C4A-NA	2.54	128.02	124.51
21	A	851	BCR	C15-C16-C17	-2.54	118.27	123.47
18	B	808	CLA	O2A-CGA-O1A	-2.54	117.18	123.59
18	A	833	CLA	CHB-C4A-NA	2.54	128.02	124.51
18	B	820	CLA	CHB-C4A-NA	2.54	128.02	124.51
18	B	826	CLA	CHB-C4A-NA	2.54	128.02	124.51
18	B	834	CLA	CHB-C4A-NA	2.54	128.02	124.51
27	5	620	XAT	C10-C11-C12	-2.54	115.31	123.22
18	A	820	CLA	C1B-CHB-C4A	-2.54	125.10	130.12
25	5	606	CHL	CMB-C2B-C3B	2.53	129.65	124.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	5	615	CHL	C2A-C1A-CHA	-2.53	119.43	123.86
18	A	817	CLA	O2D-CGD-O1D	-2.53	118.34	124.09
21	B	801	BCR	C33-C5-C6	-2.53	121.68	124.53
18	A	817	CLA	CHB-C4A-NA	2.53	128.01	124.51
18	3	602	CLA	CHB-C4A-NA	2.53	128.01	124.51
21	I	101	BCR	C15-C16-C17	-2.53	118.29	123.47
18	A	818	CLA	CHB-C4A-NA	2.53	128.01	124.51
18	A	826	CLA	CHB-C4A-NA	2.53	128.01	124.51
18	A	829	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
21	G	205	BCR	C33-C5-C6	-2.53	121.69	124.53
18	A	836	CLA	CHB-C4A-NA	2.53	128.01	124.51
18	B	835	CLA	C1B-CHB-C4A	-2.53	125.11	130.12
18	B	833	CLA	C1B-CHB-C4A	-2.52	125.12	130.12
21	3	622	BCR	C15-C14-C13	-2.52	123.71	127.31
21	B	843	BCR	C33-C5-C6	-2.52	121.70	124.53
18	G	201	CLA	CHB-C4A-NA	2.52	128.00	124.51
21	B	848	BCR	C28-C27-C26	-2.52	109.58	114.08
18	B	817	CLA	CHB-C4A-NA	2.52	128.00	124.51
18	A	801	CLA	C1B-CHB-C4A	-2.52	125.13	130.12
18	A	822	CLA	CMB-C2B-C3B	2.52	129.62	124.69
21	B	843	BCR	C24-C23-C22	-2.52	122.43	126.23
18	G	204	CLA	O2D-CGD-O1D	-2.52	118.38	124.09
18	B	837	CLA	CHB-C4A-NA	2.51	127.99	124.51
18	3	613	CLA	CHB-C4A-NA	2.51	127.99	124.51
18	2	612	CLA	CAA-C2A-C3A	-2.51	110.24	116.10
18	A	806	CLA	CHB-C4A-NA	2.51	127.98	124.51
18	A	809	CLA	CHB-C4A-NA	2.51	127.98	124.51
18	3	606	CLA	O2D-CGD-O1D	-2.51	118.39	124.09
18	B	840	CLA	CHB-C4A-NA	2.51	127.98	124.51
18	G	203	CLA	C1B-CHB-C4A	-2.51	125.15	130.12
18	5	609	CLA	CHB-C4A-NA	2.51	127.98	124.51
18	L	303	CLA	CHB-C4A-NA	2.50	127.97	124.51
18	A	807	CLA	O2D-CGD-O1D	-2.50	118.40	124.09
25	2	616	CHL	CMB-C2B-C3B	2.50	129.36	124.68
18	3	607	CLA	CHB-C4A-NA	2.50	127.97	124.51
18	B	815	CLA	CHB-C4A-NA	2.50	127.97	124.51
18	B	825	CLA	C1B-CHB-C4A	-2.50	125.17	130.12
18	B	808	CLA	CHB-C4A-NA	2.50	127.97	124.51
18	A	825	CLA	CHB-C4A-NA	2.49	127.96	124.51
18	A	810	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	L	301	BCR	C15-C14-C13	-2.49	123.75	127.31
21	A	850	BCR	C33-C5-C6	-2.49	121.73	124.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	K	202	BCR	C33-C5-C6	-2.49	121.73	124.53
18	2	611	CLA	CHB-C4A-NA	2.49	127.96	124.51
18	2	603	CLA	CHB-C4A-NA	2.49	127.96	124.51
21	2	621	BCR	C27-C26-C25	2.49	126.35	122.73
18	K	206	CLA	CHB-C4A-NA	2.49	127.96	124.51
18	6	606	CLA	CHB-C4A-NA	2.49	127.96	124.51
18	A	815	CLA	CHB-C4A-NA	2.49	127.95	124.51
18	B	830	CLA	CHB-C4A-NA	2.49	127.95	124.51
26	3	618	LUT	C15-C35-C34	-2.49	118.38	123.47
18	A	832	CLA	CHB-C4A-NA	2.49	127.95	124.51
18	6	616	CLA	CHB-C4A-NA	2.49	127.95	124.51
25	2	601	CHL	CMB-C2B-C3B	2.49	129.56	124.69
18	A	841	CLA	CHB-C4A-NA	2.48	127.95	124.51
18	A	843	CLA	CHB-C4A-NA	2.48	127.95	124.51
18	K	203	CLA	CHB-C4A-NA	2.48	127.95	124.51
18	G	203	CLA	CHB-C4A-NA	2.48	127.95	124.51
18	F	304	CLA	CHB-C4A-NA	2.48	127.95	124.51
18	2	602	CLA	CHB-C4A-NA	2.48	127.94	124.51
27	2	620	XAT	C24-C23-C22	-2.48	105.98	110.77
18	A	831	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	B	841	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	6	608	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	3	606	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	A	821	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	6	610	CLA	O2D-CGD-O1D	-2.48	118.46	124.09
18	B	822	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	B	807	CLA	C1-C2-C3	-2.48	121.76	126.04
18	5	603	CLA	O2D-CGD-O1D	-2.48	118.46	124.09
18	5	610	CLA	C1-C2-C3	-2.48	121.76	126.04
18	A	824	CLA	CHB-C4A-NA	2.48	127.94	124.51
21	B	843	BCR	C15-C16-C17	-2.48	118.40	123.47
18	B	829	CLA	CHB-C4A-NA	2.48	127.94	124.51
18	6	602	CLA	CHB-C4A-NA	2.47	127.93	124.51
18	5	614	CLA	CHB-C4A-NA	2.47	127.93	124.51
18	5	601	CLA	CHB-C4A-NA	2.47	127.93	124.51
18	6	604	CLA	CHB-C4A-NA	2.47	127.93	124.51
20	A	847	LHG	C11-C10-C9	-2.47	101.88	114.42
18	5	603	CLA	CHB-C4A-NA	2.47	127.93	124.51
25	2	616	CHL	C1C-C2C-C3C	-2.47	105.16	107.11
18	3	614	CLA	O2D-CGD-O1D	-2.47	118.49	124.09
18	G	204	CLA	CHB-C4A-NA	2.46	127.92	124.51
18	K	201	CLA	CHB-C4A-NA	2.46	127.92	124.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	603	CLA	CHB-C4A-NA	2.46	127.92	124.51
25	2	608	CHL	CMB-C2B-C3B	2.46	129.29	124.68
18	B	810	CLA	CHB-C4A-NA	2.46	127.92	124.51
27	3	619	XAT	C35-C34-C33	-2.46	123.80	127.31
18	A	812	CLA	CHB-C4A-NA	2.46	127.91	124.51
18	A	816	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
18	F	301	CLA	CHB-C4A-NA	2.46	127.91	124.51
18	J	101	CLA	CHB-C4A-NA	2.46	127.91	124.51
18	2	614	CLA	CHB-C4A-NA	2.46	127.91	124.51
18	A	828	CLA	CHB-C4A-NA	2.46	127.91	124.51
18	5	602	CLA	C1B-CHB-C4A	-2.46	125.25	130.12
18	B	839	CLA	O2D-CGD-O1D	-2.46	118.51	124.09
18	5	610	CLA	CHB-C4A-NA	2.46	127.91	124.51
21	A	848	BCR	C3-C4-C5	-2.45	109.70	114.08
18	B	808	CLA	C1B-CHB-C4A	-2.45	125.26	130.12
18	6	609	CLA	CHB-C4A-NA	2.45	127.90	124.51
18	A	839	CLA	CHB-C4A-NA	2.45	127.90	124.51
18	6	610	CLA	CHB-C4A-NA	2.45	127.90	124.51
25	5	608	CHL	CMB-C2B-C3B	2.45	129.25	124.68
18	A	822	CLA	C1B-CHB-C4A	-2.45	125.27	130.12
21	A	856	BCR	C15-C14-C13	-2.45	123.82	127.31
21	3	622	BCR	C11-C10-C9	-2.44	123.82	127.31
25	2	616	CHL	O2D-CGD-O1D	-2.44	119.06	123.84
25	5	606	CHL	O2D-CGD-O1D	-2.44	119.06	123.84
21	A	856	BCR	C24-C23-C22	-2.44	122.54	126.23
18	B	834	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
18	L	302	CLA	CHB-C4A-NA	2.44	127.89	124.51
18	2	604	CLA	O2D-CGD-CBD	2.44	115.61	111.27
18	A	805	CLA	C1B-CHB-C4A	-2.44	125.28	130.12
18	3	610	CLA	CAA-C2A-C3A	-2.44	110.41	116.10
18	A	816	CLA	CHB-C4A-NA	2.44	127.89	124.51
18	A	827	CLA	CHB-C4A-NA	2.44	127.89	124.51
18	3	604	CLA	CHB-C4A-NA	2.44	127.88	124.51
25	5	615	CHL	C1C-C2C-C3C	-2.44	105.18	107.11
25	5	607	CHL	C2D-C1D-ND	2.44	111.90	110.10
18	B	830	CLA	C1B-CHB-C4A	-2.44	125.29	130.12
21	F	302	BCR	C27-C26-C25	2.43	126.26	122.73
18	5	604	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
18	A	843	CLA	C1B-CHB-C4A	-2.43	125.30	130.12
18	3	610	CLA	CHB-C4A-NA	2.43	127.87	124.51
18	F	303	CLA	CHB-C4A-NA	2.43	127.87	124.51
18	5	609	CLA	C1B-CHB-C4A	-2.43	125.31	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	611	CLA	CHB-C4A-NA	2.43	127.87	124.51
18	A	802	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
18	A	840	CLA	C1B-CHB-C4A	-2.43	125.31	130.12
18	B	811	CLA	CHB-C4A-NA	2.42	127.86	124.51
18	B	814	CLA	CHB-C4A-NA	2.42	127.86	124.51
21	B	847	BCR	C27-C26-C25	2.42	126.25	122.73
18	B	818	CLA	CHB-C4A-NA	2.42	127.86	124.51
25	5	606	CHL	OMC-CMC-C2C	-2.42	120.21	125.69
18	3	617	CLA	CHB-C4A-NA	2.42	127.86	124.51
18	B	819	CLA	CHB-C4A-NA	2.42	127.86	124.51
18	6	602	CLA	C1B-CHB-C4A	-2.42	125.32	130.12
18	B	803	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
25	5	608	CHL	C5-C3-C4	2.42	119.94	114.60
20	5	622	LHG	C11-C10-C9	-2.42	102.15	114.42
18	B	838	CLA	C1B-CHB-C4A	-2.42	125.33	130.12
21	L	301	BCR	C27-C26-C25	2.42	126.24	122.73
25	6	607	CHL	CHD-C1D-C2D	2.42	130.55	125.48
20	2	622	LHG	C11-C10-C9	-2.42	102.16	114.42
21	B	843	BCR	C15-C14-C13	-2.41	123.86	127.31
18	B	813	CLA	C1B-CHB-C4A	-2.41	125.33	130.12
18	A	807	CLA	CHB-C4A-NA	2.41	127.85	124.51
21	B	801	BCR	C27-C26-C25	2.41	126.23	122.73
18	B	816	CLA	CHB-C4A-NA	2.41	127.85	124.51
18	A	831	CLA	C1B-CHB-C4A	-2.41	125.34	130.12
18	A	842	CLA	CHB-C4A-NA	2.41	127.84	124.51
18	2	613	CLA	CHB-C4A-NA	2.41	127.84	124.51
21	B	844	BCR	C15-C16-C17	-2.41	118.54	123.47
18	A	834	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
18	B	809	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
18	A	808	CLA	CHB-C4A-NA	2.41	127.84	124.51
18	B	807	CLA	C1B-CHB-C4A	-2.41	125.35	130.12
18	3	610	CLA	C1B-CHB-C4A	-2.40	125.35	130.12
21	B	846	BCR	C33-C5-C6	-2.40	121.83	124.53
18	A	830	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
27	6	619	XAT	C39-C29-C28	2.40	121.86	118.08
21	A	856	BCR	C11-C10-C9	-2.40	123.88	127.31
18	F	305	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
18	B	836	CLA	CHB-C4A-NA	2.40	127.83	124.51
18	A	834	CLA	CHB-C4A-NA	2.40	127.83	124.51
18	A	825	CLA	C1B-CHB-C4A	-2.40	125.36	130.12
25	2	607	CHL	C1D-ND-C4D	-2.40	104.63	106.33
18	B	819	CLA	C1B-CHB-C4A	-2.40	125.36	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	613	CLA	CHB-C4A-NA	2.40	127.83	124.51
18	B	825	CLA	CHB-C4A-NA	2.40	127.83	124.51
18	3	614	CLA	CHB-C4A-NA	2.40	127.83	124.51
21	B	848	BCR	C35-C13-C14	-2.40	119.56	122.92
18	B	831	CLA	CHB-C4A-NA	2.39	127.82	124.51
18	B	840	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
21	A	856	BCR	C3-C4-C5	-2.39	109.80	114.08
18	A	806	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
18	A	813	CLA	CHB-C4A-NA	2.39	127.82	124.51
18	A	827	CLA	C1B-CHB-C4A	-2.39	125.38	130.12
21	K	207	BCR	C27-C26-C25	2.39	126.20	122.73
21	G	205	BCR	C15-C16-C17	-2.39	118.58	123.47
18	3	609	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
21	B	845	BCR	C24-C23-C22	-2.39	122.63	126.23
18	B	808	CLA	C1-C2-C3	-2.39	122.89	126.75
18	A	828	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
21	A	852	BCR	C27-C26-C25	2.39	126.19	122.73
26	2	619	LUT	C20-C13-C14	-2.39	119.58	122.92
18	3	602	CLA	C1B-CHB-C4A	-2.39	125.39	130.12
18	A	838	CLA	CHB-C4A-NA	2.38	127.81	124.51
18	F	305	CLA	CHB-C4A-NA	2.38	127.81	124.51
18	A	830	CLA	CHB-C4A-NA	2.38	127.81	124.51
18	A	823	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	B	847	BCR	C11-C10-C9	-2.38	123.91	127.31
21	5	621	BCR	C27-C26-C25	2.38	126.19	122.73
18	3	615	CLA	C1B-CHB-C4A	-2.38	125.40	130.12
21	A	856	BCR	C27-C26-C25	2.38	126.19	122.73
18	6	609	CLA	CAA-C2A-C3A	-2.38	110.55	116.10
25	5	606	CHL	C1C-C2C-C3C	-2.38	105.23	107.11
18	B	821	CLA	CHB-C4A-NA	2.38	127.80	124.51
18	B	823	CLA	CHB-C4A-NA	2.37	127.80	124.51
27	5	620	XAT	C18-C5-C4	2.37	116.95	114.28
18	A	809	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	2	610	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	6	612	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	5	610	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
21	F	302	BCR	C33-C5-C6	-2.37	121.86	124.53
18	A	812	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	A	837	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	B	829	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	B	838	CLA	CHB-C4A-NA	2.37	127.79	124.51
18	3	611	CLA	C1B-CHB-C4A	-2.37	125.42	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	849	BCR	C33-C5-C6	-2.37	121.87	124.53
18	6	603	CLA	C1B-CHB-C4A	-2.37	125.42	130.12
18	A	819	CLA	C1B-CHB-C4A	-2.37	125.43	130.12
18	3	603	CLA	CHB-C4A-NA	2.37	127.78	124.51
18	A	819	CLA	CHB-C4A-NA	2.37	127.78	124.51
18	B	833	CLA	CHB-C4A-NA	2.37	127.78	124.51
21	L	305	BCR	C15-C14-C13	-2.36	123.94	127.31
18	A	826	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
18	A	833	CLA	C1B-CHB-C4A	-2.36	125.44	130.12
18	B	841	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
18	A	836	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
18	B	812	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
18	2	611	CLA	C1B-CHB-C4A	-2.36	125.45	130.12
18	B	807	CLA	CHB-C4A-NA	2.35	127.77	124.51
18	A	804	CLA	C1B-CHB-C4A	-2.35	125.45	130.12
18	3	613	CLA	C1B-CHB-C4A	-2.35	125.46	130.12
27	5	620	XAT	C30-C31-C32	-2.35	115.88	123.22
21	A	849	BCR	C15-C14-C13	-2.35	123.95	127.31
18	A	837	CLA	CHB-C4A-NA	2.35	127.76	124.51
18	B	832	CLA	CHB-C4A-NA	2.35	127.76	124.51
18	3	606	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
18	A	814	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
25	5	607	CHL	CHD-C1D-C2D	2.35	130.41	125.48
18	2	604	CLA	C1-C2-C3	-2.35	122.95	126.75
23	B	850	DGD	CFB-CEB-CDB	-2.35	102.51	114.42
18	B	818	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
18	B	839	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
18	5	610	CLA	O2A-CGA-O1A	-2.35	117.67	123.59
27	2	620	XAT	C28-C29-C30	-2.35	115.34	118.94
18	A	839	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
18	3	617	CLA	C1B-CHB-C4A	-2.35	125.47	130.12
25	2	601	CHL	C1C-C2C-C3C	-2.34	105.25	107.11
18	B	811	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
21	A	850	BCR	C27-C26-C25	2.34	126.13	122.73
25	2	601	CHL	O2D-CGD-O1D	-2.34	119.26	123.84
21	B	845	BCR	C33-C5-C6	-2.34	121.90	124.53
18	B	837	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
18	3	615	CLA	CHB-C4A-NA	2.34	127.75	124.51
18	B	823	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
20	A	846	LHG	C20-C19-C18	-2.34	102.55	114.42
18	A	841	CLA	C1B-CHB-C4A	-2.34	125.48	130.12
18	3	617	CLA	CAA-C2A-C3A	-2.34	110.64	116.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	2	612	CLA	CHB-C4A-NA	2.34	127.75	124.51
18	5	603	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
18	A	811	CLA	CHB-C4A-NA	2.34	127.74	124.51
18	B	806	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
18	A	807	CLA	C1B-CHB-C4A	-2.34	125.49	130.12
21	A	848	BCR	C27-C26-C25	2.33	126.12	122.73
18	F	303	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
18	6	613	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
25	2	607	CHL	O2D-CGD-O1D	-2.33	119.29	123.84
18	L	304	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
18	5	614	CLA	C1B-CHB-C4A	-2.33	125.51	130.12
18	3	610	CLA	CMA-C3A-C2A	-2.32	110.67	116.10
24	2	617	LMG	O1-C1-C2	-2.32	105.42	108.15
18	G	201	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
21	G	205	BCR	C27-C26-C25	2.32	126.10	122.73
18	A	811	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
18	B	821	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
21	A	851	BCR	C15-C14-C13	-2.32	124.00	127.31
18	A	832	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
18	F	301	CLA	C1B-CHB-C4A	-2.32	125.52	130.12
25	5	607	CHL	OMC-CMC-C2C	-2.32	120.44	125.69
25	6	601	CHL	C1C-C2C-C3C	-2.32	105.27	107.11
18	2	604	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
24	2	618	LMG	O3-C3-C2	-2.32	104.99	110.35
18	5	612	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
18	B	805	CLA	O2A-CGA-O1A	-2.32	117.74	123.59
23	B	850	DGD	C3D-C4D-C5D	-2.32	106.11	110.24
18	2	603	CLA	C1B-CHB-C4A	-2.32	125.53	130.12
21	B	844	BCR	C33-C5-C6	-2.32	121.93	124.53
21	2	621	BCR	C15-C14-C13	-2.31	124.01	127.31
21	K	202	BCR	C27-C26-C25	2.31	126.09	122.73
27	3	619	XAT	C25-C24-C23	-2.31	108.18	112.75
18	B	804	CLA	C1B-CHB-C4A	-2.31	125.54	130.12
18	A	841	CLA	O2A-CGA-O1A	-2.31	117.77	123.59
18	2	602	CLA	C1B-CHB-C4A	-2.31	125.55	130.12
18	B	809	CLA	CHB-C4A-NA	2.31	127.70	124.51
18	B	826	CLA	C1B-CHB-C4A	-2.30	125.56	130.12
20	A	846	LHG	C18-C17-C16	-2.30	102.74	114.42
21	B	845	BCR	C15-C16-C17	-2.30	118.76	123.47
18	A	840	CLA	CHB-C4A-NA	2.30	127.69	124.51
18	3	615	CLA	CAA-C2A-C3A	-2.30	110.73	116.10
18	B	836	CLA	C1B-CHB-C4A	-2.30	125.56	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	2	621	BCR	C33-C5-C6	-2.30	121.95	124.53
21	B	801	BCR	C24-C23-C22	-2.30	122.77	126.23
18	B	814	CLA	C1B-CHB-C4A	-2.30	125.57	130.12
18	B	836	CLA	CHD-C1D-ND	-2.29	122.34	124.45
18	A	838	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
18	L	303	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
18	A	815	CLA	C1B-CHB-C4A	-2.29	125.57	130.12
25	3	608	CHL	CBC-CAC-C3C	-2.29	106.11	112.43
18	B	825	CLA	O2A-CGA-O1A	-2.29	117.81	123.59
18	A	820	CLA	CHB-C4A-NA	2.29	127.68	124.51
26	6	617	LUT	C11-C12-C13	-2.29	119.98	126.42
18	K	204	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
18	6	609	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
26	3	618	LUT	C20-C13-C12	2.29	121.69	118.08
18	A	818	CLA	C1B-CHB-C4A	-2.29	125.58	130.12
18	B	816	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
27	6	619	XAT	C24-C23-C22	-2.29	106.36	110.77
18	A	808	CLA	C1B-CHB-C4A	-2.29	125.59	130.12
18	B	822	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
18	6	604	CLA	C1B-CHB-C4A	-2.28	125.59	130.12
18	B	832	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
18	3	604	CLA	C1B-CHB-C4A	-2.28	125.60	130.12
18	B	827	CLA	CHB-C4A-NA	2.28	127.66	124.51
18	A	818	CLA	O2D-CGD-CBD	2.28	115.32	111.27
25	2	601	CHL	C1D-ND-C4D	-2.28	104.72	106.33
18	L	303	CLA	CHD-C1D-ND	-2.28	122.36	124.45
18	6	614	CLA	CAA-C2A-C3A	-2.28	110.78	116.10
18	6	614	CLA	CMA-C3A-C2A	-2.28	110.78	116.10
18	5	601	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
21	J	103	BCR	C15-C14-C13	-2.28	124.06	127.31
21	F	302	BCR	C24-C23-C22	-2.28	122.79	126.23
18	A	813	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
18	B	820	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
18	B	831	CLA	C1B-CHB-C4A	-2.28	125.61	130.12
18	3	613	CLA	C1-C2-C3	-2.27	122.11	126.04
18	K	206	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
24	J	104	LMG	O3-C3-C2	-2.27	105.10	110.35
18	G	204	CLA	C1B-CHB-C4A	-2.27	125.62	130.12
21	J	103	BCR	C28-C27-C26	-2.27	110.03	114.08
21	3	622	BCR	C15-C16-C17	-2.27	118.83	123.47
18	B	805	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
18	3	612	CLA	C1B-CHB-C4A	-2.27	125.63	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	A	849	BCR	C27-C26-C25	2.27	126.02	122.73
18	2	613	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
18	B	808	CLA	O2D-CGD-CBD	2.27	115.30	111.27
18	5	613	CLA	C1B-CHB-C4A	-2.27	125.63	130.12
18	B	826	CLA	O2D-CGD-CBD	2.27	115.29	111.27
21	2	621	BCR	C11-C10-C9	-2.27	124.08	127.31
18	A	821	CLA	C1B-CHB-C4A	-2.26	125.63	130.12
18	3	611	CLA	CAA-C2A-C3A	-2.26	110.82	116.10
18	B	810	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
18	6	606	CLA	C1B-CHB-C4A	-2.26	125.64	130.12
18	J	101	CLA	C1B-CHB-C4A	-2.26	125.65	130.12
27	5	620	XAT	C19-C9-C8	2.26	121.63	118.08
21	A	850	BCR	C24-C23-C22	-2.26	122.83	126.23
18	3	607	CLA	C1B-CHB-C4A	-2.26	125.65	130.12
25	3	608	CHL	CMB-C2B-C3B	2.25	128.89	124.68
25	6	607	CHL	O2D-CGD-O1D	-2.25	118.98	124.09
18	A	817	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
18	L	302	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
18	B	835	CLA	CHB-C4A-NA	2.25	127.62	124.51
25	5	615	CHL	C1B-CHB-C4A	-2.25	125.66	130.12
26	2	619	LUT	C2-C3-C4	2.25	113.38	110.30
18	6	611	CLA	C1B-CHB-C4A	-2.25	125.66	130.12
25	6	601	CHL	O2D-CGD-O1D	-2.25	118.98	124.09
18	B	803	CLA	O2A-CGA-O1A	-2.25	117.92	123.59
21	B	847	BCR	C33-C5-C6	-2.25	122.01	124.53
18	A	843	CLA	CHD-C1D-ND	-2.24	122.39	124.45
26	5	619	LUT	C11-C12-C13	-2.24	120.12	126.42
27	5	620	XAT	O24-C25-C26	-2.24	57.10	58.96
18	B	815	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
18	A	836	CLA	CHD-C1D-ND	-2.24	122.40	124.45
18	2	614	CLA	C1B-CHB-C4A	-2.24	125.68	130.12
25	2	601	CHL	CHD-C1D-C2D	2.24	130.18	125.48
18	5	602	CLA	CHB-C4A-NA	2.24	127.61	124.51
21	B	845	BCR	C15-C14-C13	-2.24	124.12	127.31
18	A	824	CLA	C1B-CHB-C4A	-2.24	125.69	130.12
21	A	848	BCR	C24-C23-C22	-2.24	122.86	126.23
21	J	103	BCR	C15-C16-C17	-2.24	118.89	123.47
25	2	607	CHL	C4A-NA-C1A	2.24	107.71	106.71
21	3	620	BCR	C15-C16-C17	-2.24	118.89	123.47
18	F	304	CLA	C1B-CHB-C4A	-2.24	125.69	130.12
18	B	817	CLA	C1B-CHB-C4A	-2.23	125.69	130.12
18	3	611	CLA	O2D-CGD-O1D	-2.23	119.02	124.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	5	620	XAT	C20-C13-C12	2.23	121.59	118.08
26	6	617	LUT	C15-C35-C34	-2.23	118.90	123.47
18	B	824	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
18	5	611	CLA	C1B-CHB-C4A	-2.23	125.70	130.12
18	B	828	CLA	O2A-CGA-O1A	-2.23	117.97	123.59
21	B	844	BCR	C27-C26-C25	2.23	125.96	122.73
18	3	614	CLA	C1B-CHB-C4A	-2.22	125.71	130.12
18	A	811	CLA	CHD-C1D-ND	-2.22	122.41	124.45
18	B	832	CLA	CHD-C1D-ND	-2.22	122.41	124.45
25	5	606	CHL	C2A-C1A-CHA	-2.22	119.98	123.86
18	A	829	CLA	CHB-C4A-NA	2.22	127.58	124.51
18	B	804	CLA	O2D-CGD-CBD	2.22	115.21	111.27
21	5	621	BCR	C11-C10-C9	-2.22	124.15	127.31
18	A	842	CLA	C1B-CHB-C4A	-2.21	125.73	130.12
18	A	809	CLA	O2D-CGD-CBD	2.21	115.20	111.27
18	B	814	CLA	CHD-C1D-ND	-2.21	122.42	124.45
18	B	802	CLA	O2A-CGA-O1A	-2.21	118.01	123.59
21	G	205	BCR	C7-C8-C9	-2.21	122.89	126.23
21	3	622	BCR	C33-C5-C6	-2.21	122.05	124.53
18	A	816	CLA	CHD-C1D-ND	-2.21	122.42	124.45
21	B	844	BCR	C15-C14-C13	-2.21	124.16	127.31
21	I	101	BCR	C33-C5-C6	-2.21	122.05	124.53
18	6	616	CLA	C1B-CHB-C4A	-2.21	125.75	130.12
21	A	851	BCR	C2-C1-C6	2.21	113.88	110.48
21	3	620	BCR	C28-C27-C26	-2.21	110.14	114.08
25	2	608	CHL	O2D-CGD-O1D	-2.21	119.08	124.09
25	5	615	CHL	O2D-CGD-O1D	-2.20	119.54	123.84
18	2	612	CLA	C1B-CHB-C4A	-2.20	125.77	130.12
18	B	822	CLA	C1-C2-C3	-2.20	122.24	126.04
20	2	622	LHG	C27-C26-C25	-2.20	103.27	114.42
18	G	201	CLA	CHD-C1D-ND	-2.20	122.44	124.45
18	A	845	CLA	O2A-CGA-O1A	-2.19	118.05	123.59
18	6	608	CLA	C1B-CHB-C4A	-2.19	125.77	130.12
18	6	606	CLA	C2A-C1A-CHA	2.19	126.11	122.71
21	B	843	BCR	C7-C8-C9	-2.19	122.92	126.23
21	J	103	BCR	C3-C4-C5	-2.19	110.16	114.08
18	B	813	CLA	O2A-CGA-O1A	-2.19	118.06	123.59
24	2	618	LMG	O1-C1-C2	-2.19	105.58	108.15
18	A	833	CLA	CHD-C1D-ND	-2.19	122.44	124.45
21	L	301	BCR	C2-C1-C6	2.19	113.85	110.48
25	6	607	CHL	C1C-C2C-C3C	-2.19	105.38	107.11
21	A	852	BCR	C7-C8-C9	-2.19	122.93	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	A	812	CLA	CHD-C1D-ND	-2.19	122.44	124.45
18	A	829	CLA	O2A-CGA-O1A	-2.18	118.08	123.59
21	I	101	BCR	C15-C14-C13	-2.18	124.19	127.31
18	B	828	CLA	CHB-C4A-NA	2.18	127.53	124.51
18	A	845	CLA	C1B-CHB-C4A	-2.18	125.80	130.12
18	2	609	CLA	CHD-C1D-ND	-2.18	122.45	124.45
24	2	617	LMG	O3-C3-C2	-2.18	105.31	110.35
18	A	810	CLA	C1B-CHB-C4A	-2.18	125.81	130.12
23	B	850	DGD	CBB-CAB-C9B	-2.18	103.38	114.42
18	B	802	CLA	CHB-C4A-NA	2.17	127.52	124.51
18	B	834	CLA	CHD-C1D-ND	-2.17	122.46	124.45
18	B	838	CLA	O2A-CGA-O1A	-2.17	118.11	123.59
18	B	841	CLA	O2A-CGA-O1A	-2.17	118.11	123.59
21	3	620	BCR	C24-C23-C22	-2.17	122.95	126.23
18	B	809	CLA	CHD-C1D-ND	-2.17	122.46	124.45
18	6	614	CLA	CHB-C4A-NA	2.17	127.52	124.51
18	B	819	CLA	CHD-C1D-ND	-2.17	122.46	124.45
21	F	302	BCR	C15-C14-C13	-2.17	124.22	127.31
25	5	607	CHL	C1C-C2C-C3C	-2.17	105.39	107.11
18	A	837	CLA	O2D-CGD-CBD	2.17	115.12	111.27
20	5	622	LHG	C27-C26-C25	-2.16	103.44	114.42
25	2	607	CHL	OMC-CMC-C2C	-2.16	120.80	125.69
25	6	607	CHL	OMC-CMC-C2C	-2.16	120.80	125.69
18	5	614	CLA	CHD-C1D-ND	-2.16	122.47	124.45
21	B	846	BCR	C15-C14-C13	-2.16	124.22	127.31
27	5	620	XAT	O4-C5-C6	-2.16	57.17	58.96
18	B	841	CLA	CHD-C1D-ND	-2.16	122.47	124.45
18	K	203	CLA	C1B-CHB-C4A	-2.16	125.84	130.12
21	A	849	BCR	C24-C23-C22	-2.16	122.97	126.23
25	3	608	CHL	O2D-CGD-O1D	-2.16	119.19	124.09
21	3	622	BCR	C27-C26-C25	2.16	125.86	122.73
20	A	846	LHG	C27-C26-C25	-2.16	103.47	114.42
18	B	806	CLA	CHD-C1D-ND	-2.15	122.48	124.45
18	A	801	CLA	O2A-CGA-O1A	-2.15	118.16	123.59
18	A	804	CLA	O2D-CGD-CBD	2.15	115.09	111.27
18	B	807	CLA	CHD-C1D-ND	-2.15	122.48	124.45
18	B	837	CLA	CHD-C1D-ND	-2.15	122.48	124.45
21	L	305	BCR	C2-C1-C6	2.15	113.79	110.48
18	B	825	CLA	CHD-C1D-ND	-2.15	122.48	124.45
21	A	850	BCR	C11-C10-C9	-2.15	124.24	127.31
18	B	821	CLA	CHD-C1D-ND	-2.15	122.48	124.45
27	3	619	XAT	C10-C11-C12	-2.14	116.53	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	613	CLA	O2A-CGA-O1A	-2.14	117.96	123.30
21	3	620	BCR	C8-C7-C6	-2.14	121.19	127.20
18	B	813	CLA	CHD-C1D-ND	-2.14	122.49	124.45
18	A	838	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
18	3	602	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
21	J	102	BCR	C2-C1-C6	2.14	113.78	110.48
26	2	619	LUT	C40-C33-C32	2.14	121.45	118.08
18	A	832	CLA	CMA-C3A-C2A	-2.14	111.10	116.10
18	B	826	CLA	O2A-CGA-O1A	-2.14	118.19	123.59
18	A	803	CLA	CHD-C1D-ND	-2.14	122.49	124.45
18	5	609	CLA	CHD-C1D-ND	-2.14	122.49	124.45
18	A	820	CLA	CHD-C1D-ND	-2.13	122.49	124.45
18	A	832	CLA	CHD-C1D-ND	-2.13	122.49	124.45
18	2	602	CLA	CHD-C1D-ND	-2.13	122.49	124.45
18	A	854	CLA	CHB-C4A-NA	2.13	127.46	124.51
18	A	815	CLA	CHD-C1D-ND	-2.13	122.50	124.45
18	3	604	CLA	CHD-C1D-ND	-2.13	122.50	124.45
18	B	832	CLA	O2D-CGD-CBD	2.12	115.04	111.27
25	2	607	CHL	C1C-C2C-C3C	-2.12	105.43	107.11
26	2	619	LUT	C39-C29-C28	2.12	121.42	118.08
18	6	604	CLA	CHD-C1D-ND	-2.12	122.51	124.45
18	3	607	CLA	CHD-C1D-ND	-2.12	122.51	124.45
18	A	838	CLA	CHD-C1D-ND	-2.12	122.51	124.45
18	B	818	CLA	CHD-C1D-ND	-2.12	122.51	124.45
25	5	615	CHL	CHB-C4A-NA	2.12	127.44	124.51
21	L	305	BCR	C24-C23-C22	-2.12	123.04	126.23
18	B	812	CLA	CHD-C1D-ND	-2.12	122.51	124.45
21	A	851	BCR	C38-C26-C25	-2.12	122.15	124.53
21	L	305	BCR	C29-C30-C25	2.11	113.74	110.48
18	A	826	CLA	O2A-CGA-O1A	-2.11	118.26	123.59
18	5	602	CLA	CHD-C1D-ND	-2.11	122.51	124.45
18	A	842	CLA	O2A-CGA-O1A	-2.11	118.04	123.30
18	B	807	CLA	O2A-CGA-O1A	-2.11	118.28	123.59
18	A	827	CLA	O2A-CGA-O1A	-2.11	118.28	123.59
18	A	801	CLA	CHB-C4A-NA	2.10	127.42	124.51
26	6	617	LUT	C31-C32-C33	-2.10	120.50	126.42
18	B	802	CLA	C1-C2-C3	-2.10	122.41	126.04
18	A	806	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
18	B	809	CLA	O2A-CGA-O1A	-2.10	118.29	123.59
18	F	303	CLA	O2A-CGA-O1A	-2.10	118.07	123.30
18	2	610	CLA	CHB-C4A-NA	2.10	127.41	124.51
18	F	303	CLA	CHD-C1D-ND	-2.10	122.53	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	F	302	BCR	C11-C10-C9	-2.10	124.32	127.31
18	B	832	CLA	O2A-CGA-O1A	-2.10	118.07	123.30
18	A	805	CLA	O2A-CGA-O1A	-2.10	118.30	123.59
18	B	811	CLA	CHD-C1D-ND	-2.09	122.53	124.45
21	L	305	BCR	C7-C8-C9	-2.09	123.07	126.23
18	B	806	CLA	O2A-CGA-O1A	-2.09	118.31	123.59
18	A	839	CLA	CHD-C1D-ND	-2.09	122.53	124.45
18	B	841	CLA	C1-C2-C3	-2.09	122.43	126.04
24	J	104	LMG	O2-C2-C1	-2.09	104.97	110.05
25	2	606	CHL	O2D-CGD-O1D	-2.09	119.75	123.84
25	2	607	CHL	CHD-C1D-C2D	2.09	129.86	125.48
21	B	848	BCR	C29-C30-C25	2.09	113.69	110.48
18	A	808	CLA	O2A-CGA-O1A	-2.09	118.10	123.30
21	B	848	BCR	C15-C14-C13	-2.09	124.33	127.31
25	2	616	CHL	OMC-CMC-C2C	-2.09	120.97	125.69
18	6	614	CLA	CHD-C1D-ND	-2.08	122.54	124.45
18	5	604	CLA	CHD-C1D-ND	-2.08	122.54	124.45
26	3	618	LUT	C1-C6-C7	-2.08	109.89	115.78
18	A	810	CLA	O2A-CGA-O1A	-2.08	118.11	123.30
21	G	205	BCR	C15-C14-C13	-2.08	124.34	127.31
18	6	603	CLA	CHD-C1D-ND	-2.08	122.54	124.45
18	B	824	CLA	O2A-CGA-O1A	-2.08	118.11	123.30
25	5	615	CHL	C4D-CHA-C1A	-2.08	118.72	121.25
18	A	839	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
18	6	604	CLA	O2A-CGA-O1A	-2.08	118.34	123.59
18	A	835	CLA	O2A-CGA-O1A	-2.08	118.35	123.59
25	2	608	CHL	C1C-C2C-C3C	-2.08	105.47	107.11
18	B	835	CLA	CHD-C1D-ND	-2.08	122.55	124.45
18	6	602	CLA	CHD-C1D-ND	-2.07	122.55	124.45
25	6	607	CHL	C2D-C1D-ND	2.07	111.63	110.10
18	B	833	CLA	O2A-CGA-O1A	-2.07	118.14	123.30
18	B	828	CLA	CHD-C1D-ND	-2.07	122.55	124.45
18	B	833	CLA	CHD-C1D-ND	-2.07	122.55	124.45
24	2	617	LMG	O2-C2-C1	-2.07	105.02	110.05
18	A	808	CLA	CHD-C1D-ND	-2.07	122.56	124.45
18	A	825	CLA	CHD-C1D-ND	-2.07	122.56	124.45
18	A	812	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
18	B	815	CLA	O2A-CGA-O1A	-2.07	118.38	123.59
18	B	830	CLA	CHD-C1D-ND	-2.07	122.56	124.45
18	B	833	CLA	CAA-C2A-C3A	-2.06	107.12	112.78
18	A	814	CLA	O2A-CGA-O1A	-2.06	118.38	123.59
18	6	610	CLA	O2A-CGA-O1A	-2.06	118.16	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	B	843	BCR	C38-C26-C25	-2.06	122.21	124.53
18	A	854	CLA	O2A-CGA-O1A	-2.06	118.39	123.59
21	B	847	BCR	C7-C8-C9	-2.06	123.12	126.23
18	3	611	CLA	C2A-C1A-CHA	2.06	127.45	123.85
21	J	103	BCR	C24-C23-C22	-2.06	123.12	126.23
25	5	608	CHL	OMC-CMC-C2C	-2.06	121.04	125.69
18	A	803	CLA	O2A-CGA-O1A	-2.06	118.40	123.59
18	3	613	CLA	O2A-CGA-O1A	-2.05	118.41	123.59
18	A	843	CLA	C1-C2-C3	-2.05	122.49	126.04
21	B	846	BCR	C15-C16-C17	-2.05	119.27	123.47
18	B	829	CLA	C2D-C1D-ND	-2.05	108.59	110.10
18	A	814	CLA	CHD-C1D-ND	-2.05	122.57	124.45
18	A	815	CLA	O2A-CGA-O1A	-2.05	118.19	123.30
25	6	601	CHL	OMC-CMC-C2C	-2.05	121.05	125.69
18	2	614	CLA	CHD-C1D-ND	-2.05	122.57	124.45
21	A	850	BCR	C7-C8-C9	-2.05	123.14	126.23
25	3	608	CHL	C1C-C2C-C3C	-2.05	104.81	106.96
25	5	607	CHL	C4D-CHA-C1A	-2.05	118.76	121.25
21	B	801	BCR	C15-C16-C17	-2.04	119.29	123.47
21	A	850	BCR	C15-C16-C17	-2.04	119.29	123.47
18	B	838	CLA	CHD-C1D-ND	-2.04	122.58	124.45
18	L	304	CLA	CHD-C1D-ND	-2.04	122.58	124.45
18	5	612	CLA	O2A-CGA-O1A	-2.04	118.21	123.30
21	L	305	BCR	C11-C10-C9	-2.04	124.40	127.31
25	2	608	CHL	OMC-CMC-C2C	-2.04	121.07	125.69
26	5	619	LUT	C17-C1-C6	-2.04	106.99	110.30
26	3	618	LUT	C21-C26-C27	-2.04	110.12	112.70
25	3	608	CHL	CAA-C2A-C3A	-2.04	111.34	116.10
18	A	827	CLA	CHD-C1D-ND	-2.04	122.58	124.45
18	B	813	CLA	C1-C2-C3	-2.04	122.52	126.04
18	G	204	CLA	CHD-C1D-ND	-2.04	122.58	124.45
21	A	851	BCR	C37-C22-C21	-2.04	120.07	122.92
21	K	202	BCR	C35-C13-C14	-2.04	120.07	122.92
18	A	804	CLA	C1-C2-C3	-2.04	122.52	126.04
18	B	837	CLA	O2D-CGD-CBD	2.03	114.88	111.27
18	A	804	CLA	O2A-CGA-O1A	-2.03	118.46	123.59
23	B	850	DGD	C5B-C4B-C3B	-2.03	104.10	114.42
18	3	617	CLA	CHD-C1D-ND	-2.03	122.59	124.45
25	2	601	CHL	O1D-CGD-CBD	-2.03	120.33	124.48
25	6	607	CHL	C4D-CHA-C1A	-2.03	118.78	121.25
24	2	618	LMG	C1-C2-C3	-2.03	105.77	110.00
18	A	854	CLA	CHD-C1D-ND	-2.03	122.59	124.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	5	602	CLA	O2A-CGA-O1A	-2.03	118.24	123.30
18	A	845	CLA	CHD-C1D-ND	-2.03	122.59	124.45
18	A	835	CLA	C1-C2-C3	-2.03	122.54	126.04
27	2	620	XAT	C10-C11-C12	-2.03	116.89	123.22
18	B	819	CLA	O2A-CGA-O1A	-2.02	118.25	123.30
18	A	818	CLA	O2A-CGA-O1A	-2.02	118.48	123.59
18	A	837	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
21	A	851	BCR	C8-C7-C6	-2.02	121.52	127.20
18	6	603	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
24	J	104	LMG	O1-C7-C8	-2.02	106.02	110.90
18	K	203	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
18	G	203	CLA	O2A-CGA-O1A	-2.02	118.49	123.59
18	A	819	CLA	O2A-CGA-O1A	-2.02	118.26	123.30
21	A	852	BCR	C24-C23-C22	-2.02	123.18	126.23
18	6	609	CLA	CHD-C1D-ND	-2.02	122.60	124.45
18	5	611	CLA	CHD-C1D-ND	-2.02	122.60	124.45
18	A	837	CLA	CHD-C1D-ND	-2.02	122.60	124.45
18	A	841	CLA	CHD-C1D-ND	-2.02	122.60	124.45
18	L	302	CLA	CHD-C1D-ND	-2.02	122.60	124.45
23	B	850	DGD	O3E-C3E-C2E	-2.02	105.69	110.35
24	J	104	LMG	C1-C2-C3	-2.02	105.80	110.00
27	6	619	XAT	O24-C25-C26	-2.02	57.29	58.96
18	2	609	CLA	O2A-CGA-O1A	-2.02	118.50	123.59
25	2	601	CHL	OMC-CMC-C2C	-2.02	121.13	125.69
21	B	848	BCR	C15-C16-C17	-2.02	119.35	123.47
21	I	101	BCR	C28-C27-C26	-2.02	110.48	114.08
18	B	805	CLA	O2D-CGD-CBD	2.01	114.85	111.27
18	5	601	CLA	CHD-C1D-ND	-2.01	122.60	124.45
18	3	602	CLA	O2D-CGD-CBD	2.01	114.84	111.27
18	K	206	CLA	O2A-CGA-O1A	-2.01	118.28	123.30
18	A	834	CLA	O2A-CGA-O1A	-2.01	118.52	123.59
18	A	843	CLA	C2D-C1D-ND	-2.01	108.62	110.10
21	L	301	BCR	C24-C23-C22	-2.01	123.20	126.23
18	B	822	CLA	O2A-CGA-O1A	-2.01	118.52	123.59
21	A	852	BCR	C15-C14-C13	-2.01	124.44	127.31
21	B	846	BCR	C38-C26-C25	-2.01	122.27	124.53
27	2	620	XAT	C20-C13-C14	-2.01	120.11	122.92
18	2	613	CLA	O2A-CGA-O1A	-2.01	118.30	123.30
18	A	829	CLA	CHD-C1D-ND	-2.01	122.61	124.45
27	6	619	XAT	C19-C9-C8	2.01	121.24	118.08
18	A	825	CLA	O2A-CGA-O1A	-2.01	118.53	123.59
18	A	821	CLA	O2A-CGA-O1A	-2.01	118.30	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	6	612	CLA	O2A-CGA-O1A	-2.00	118.30	123.30
25	2	608	CHL	CAA-C2A-C3A	-2.00	111.42	116.10
18	B	827	CLA	CHD-C1D-ND	-2.00	122.61	124.45
23	B	850	DGD	CAB-C9B-C8B	-2.00	104.25	114.42
18	A	809	CLA	O2A-CGA-O1A	-2.00	118.31	123.30
18	B	827	CLA	O2A-CGA-O1A	-2.00	118.31	123.30
26	3	618	LUT	C17-C1-C6	-2.00	107.05	110.30
21	A	849	BCR	C11-C10-C9	-2.00	124.45	127.31
18	A	817	CLA	CHD-C1D-ND	-2.00	122.61	124.45

All (180) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
18	A	801	CLA	ND
18	A	802	CLA	ND
18	A	803	CLA	ND
18	A	804	CLA	ND
18	A	805	CLA	ND
18	A	806	CLA	ND
18	A	807	CLA	ND
18	A	808	CLA	ND
18	A	809	CLA	ND
18	A	810	CLA	ND
18	A	811	CLA	ND
18	A	812	CLA	ND
18	A	813	CLA	ND
18	A	814	CLA	ND
18	A	815	CLA	ND
18	A	816	CLA	ND
18	A	817	CLA	ND
18	A	818	CLA	ND
18	A	819	CLA	ND
18	A	820	CLA	ND
18	A	821	CLA	ND
18	A	822	CLA	ND
18	A	823	CLA	ND
18	A	824	CLA	ND
18	A	825	CLA	ND
18	A	826	CLA	ND
18	A	827	CLA	ND
18	A	828	CLA	ND
18	A	829	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
18	A	830	CLA	ND
18	A	831	CLA	ND
18	A	832	CLA	ND
18	A	833	CLA	ND
18	A	834	CLA	ND
18	A	835	CLA	ND
18	A	836	CLA	ND
18	A	837	CLA	ND
18	A	838	CLA	ND
18	A	839	CLA	ND
18	A	840	CLA	ND
18	A	841	CLA	ND
18	A	842	CLA	ND
18	A	843	CLA	ND
18	A	845	CLA	ND
18	A	854	CLA	ND
18	B	802	CLA	ND
18	B	803	CLA	ND
18	B	804	CLA	ND
18	B	805	CLA	ND
18	B	806	CLA	ND
18	B	807	CLA	ND
18	B	808	CLA	ND
18	B	809	CLA	ND
18	B	810	CLA	ND
18	B	811	CLA	ND
18	B	812	CLA	ND
18	B	813	CLA	ND
18	B	814	CLA	ND
18	B	815	CLA	ND
18	B	816	CLA	ND
18	B	817	CLA	ND
18	B	818	CLA	ND
18	B	819	CLA	ND
18	B	820	CLA	ND
18	B	821	CLA	ND
18	B	822	CLA	ND
18	B	823	CLA	ND
18	B	824	CLA	ND
18	B	825	CLA	ND
18	B	826	CLA	ND
18	B	827	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
18	B	828	CLA	ND
18	B	829	CLA	ND
18	B	830	CLA	ND
18	B	831	CLA	ND
18	B	832	CLA	ND
18	B	833	CLA	ND
18	B	834	CLA	ND
18	B	835	CLA	ND
18	B	836	CLA	ND
18	B	837	CLA	ND
18	B	838	CLA	ND
18	B	839	CLA	ND
18	B	840	CLA	ND
18	B	841	CLA	ND
18	F	301	CLA	ND
18	F	303	CLA	ND
18	F	304	CLA	ND
18	F	305	CLA	ND
18	G	201	CLA	ND
18	G	203	CLA	ND
18	G	204	CLA	ND
18	J	101	CLA	ND
18	K	201	CLA	ND
18	K	203	CLA	ND
18	K	204	CLA	ND
18	K	206	CLA	ND
18	L	302	CLA	ND
18	L	303	CLA	ND
18	L	304	CLA	ND
18	2	602	CLA	ND
18	2	603	CLA	ND
18	2	604	CLA	ND
18	2	609	CLA	ND
18	2	610	CLA	ND
18	2	611	CLA	ND
18	2	612	CLA	ND
18	2	613	CLA	ND
18	2	614	CLA	ND
18	6	602	CLA	ND
18	6	603	CLA	ND
18	6	604	CLA	ND
18	6	606	CLA	ND

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Atom</b>
18	6	608	CLA	ND
18	6	609	CLA	ND
18	6	610	CLA	ND
18	6	611	CLA	ND
18	6	612	CLA	ND
18	6	613	CLA	ND
18	6	614	CLA	ND
18	6	616	CLA	ND
18	3	602	CLA	ND
18	3	603	CLA	ND
18	3	604	CLA	ND
18	3	606	CLA	ND
18	3	607	CLA	ND
18	3	609	CLA	ND
18	3	610	CLA	ND
18	3	611	CLA	ND
18	3	612	CLA	ND
18	3	613	CLA	ND
18	3	614	CLA	ND
18	3	615	CLA	ND
18	3	617	CLA	ND
18	5	601	CLA	ND
18	5	602	CLA	ND
18	5	603	CLA	ND
18	5	604	CLA	ND
18	5	609	CLA	ND
18	5	610	CLA	ND
18	5	611	CLA	ND
18	5	612	CLA	ND
18	5	613	CLA	ND
18	5	614	CLA	ND
25	2	601	CHL	ND
25	2	601	CHL	NA
25	2	601	CHL	NC
25	2	606	CHL	ND
25	2	606	CHL	NA
25	2	606	CHL	NC
25	2	607	CHL	ND
25	2	607	CHL	NA
25	2	607	CHL	NC
25	2	608	CHL	ND
25	2	608	CHL	NA

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Mol	Chain	Res	Type	Atom
25	2	608	CHL	NC
25	2	616	CHL	ND
25	2	616	CHL	NA
25	2	616	CHL	NC
25	6	601	CHL	ND
25	6	601	CHL	NA
25	6	601	CHL	NC
25	6	607	CHL	ND
25	6	607	CHL	NA
25	6	607	CHL	NC
25	3	608	CHL	ND
25	3	608	CHL	NA
25	3	608	CHL	NC
25	5	606	CHL	ND
25	5	606	CHL	NA
25	5	606	CHL	NC
25	5	607	CHL	ND
25	5	607	CHL	NA
25	5	607	CHL	NC
25	5	608	CHL	ND
25	5	608	CHL	NA
25	5	608	CHL	NC
25	5	615	CHL	ND
25	5	615	CHL	NA
25	5	615	CHL	NC

All (1358) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
18	A	801	CLA	CBD-CGD-O2D-CED
18	A	802	CLA	CHA-CBD-CGD-O1D
18	A	802	CLA	CHA-CBD-CGD-O2D
18	A	804	CLA	CHA-CBD-CGD-O1D
18	A	804	CLA	CHA-CBD-CGD-O2D
18	A	805	CLA	C1A-C2A-CAA-CBA
18	A	805	CLA	C3A-C2A-CAA-CBA
18	A	805	CLA	CHA-CBD-CGD-O1D
18	A	805	CLA	CHA-CBD-CGD-O2D
18	A	806	CLA	CHA-CBD-CGD-O1D
18	A	806	CLA	CHA-CBD-CGD-O2D
18	A	806	CLA	CAD-CBD-CGD-O1D
18	A	809	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
18	A	809	CLA	C3A-C2A-CAA-CBA
18	A	811	CLA	CBD-CGD-O2D-CED
18	A	816	CLA	CHA-CBD-CGD-O1D
18	A	816	CLA	CHA-CBD-CGD-O2D
18	A	818	CLA	CHA-CBD-CGD-O1D
18	A	818	CLA	CHA-CBD-CGD-O2D
18	A	818	CLA	C4-C3-C5-C6
18	A	819	CLA	C3A-C2A-CAA-CBA
18	A	820	CLA	C1A-C2A-CAA-CBA
18	A	820	CLA	C3A-C2A-CAA-CBA
18	A	821	CLA	CHA-CBD-CGD-O1D
18	A	821	CLA	CHA-CBD-CGD-O2D
18	A	821	CLA	CAD-CBD-CGD-O1D
18	A	821	CLA	CAD-CBD-CGD-O2D
18	A	823	CLA	C2A-CAA-CBA-CGA
18	A	823	CLA	CHA-CBD-CGD-O2D
18	A	824	CLA	CAD-CBD-CGD-O1D
18	A	824	CLA	CAD-CBD-CGD-O2D
18	A	825	CLA	CHA-CBD-CGD-O1D
18	A	825	CLA	CHA-CBD-CGD-O2D
18	A	826	CLA	CHA-CBD-CGD-O1D
18	A	826	CLA	CHA-CBD-CGD-O2D
18	A	826	CLA	C6-C7-C8-C9
18	A	827	CLA	C3A-C2A-CAA-CBA
18	A	828	CLA	CHA-CBD-CGD-O1D
18	A	828	CLA	CHA-CBD-CGD-O2D
18	A	828	CLA	CAD-CBD-CGD-O1D
18	A	828	CLA	CAD-CBD-CGD-O2D
18	A	829	CLA	C1A-C2A-CAA-CBA
18	A	829	CLA	C3A-C2A-CAA-CBA
18	A	831	CLA	CHA-CBD-CGD-O1D
18	A	831	CLA	CHA-CBD-CGD-O2D
18	A	832	CLA	CHA-CBD-CGD-O1D
18	A	832	CLA	CHA-CBD-CGD-O2D
18	A	832	CLA	CAD-CBD-CGD-O1D
18	A	833	CLA	C1A-C2A-CAA-CBA
18	A	833	CLA	C3A-C2A-CAA-CBA
18	A	834	CLA	CBD-CGD-O2D-CED
18	A	837	CLA	CHA-CBD-CGD-O1D
18	A	837	CLA	CHA-CBD-CGD-O2D
18	A	841	CLA	CHA-CBD-CGD-O1D
18	A	845	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
18	A	845	CLA	CHA-CBD-CGD-O2D
18	A	845	CLA	CAD-CBD-CGD-O1D
18	A	854	CLA	CHA-CBD-CGD-O1D
18	A	854	CLA	CHA-CBD-CGD-O2D
18	A	854	CLA	CAD-CBD-CGD-O1D
18	A	854	CLA	CAD-CBD-CGD-O2D
18	A	854	CLA	C2-C3-C5-C6
18	A	854	CLA	C4-C3-C5-C6
18	B	802	CLA	CHA-CBD-CGD-O1D
18	B	802	CLA	CHA-CBD-CGD-O2D
18	B	805	CLA	C3A-C2A-CAA-CBA
18	B	806	CLA	CBD-CGD-O2D-CED
18	B	810	CLA	CBA-CGA-O2A-C1
18	B	811	CLA	CBD-CGD-O2D-CED
18	B	812	CLA	C1A-C2A-CAA-CBA
18	B	812	CLA	C3A-C2A-CAA-CBA
18	B	813	CLA	CHA-CBD-CGD-O1D
18	B	813	CLA	CHA-CBD-CGD-O2D
18	B	813	CLA	CAD-CBD-CGD-O1D
18	B	813	CLA	CAD-CBD-CGD-O2D
18	B	815	CLA	C2-C3-C5-C6
18	B	815	CLA	C4-C3-C5-C6
18	B	818	CLA	C1A-C2A-CAA-CBA
18	B	818	CLA	C3A-C2A-CAA-CBA
18	B	822	CLA	CHA-CBD-CGD-O1D
18	B	822	CLA	CHA-CBD-CGD-O2D
18	B	822	CLA	C2-C3-C5-C6
18	B	822	CLA	C4-C3-C5-C6
18	B	823	CLA	CHA-CBD-CGD-O1D
18	B	823	CLA	CHA-CBD-CGD-O2D
18	B	825	CLA	C3A-C2A-CAA-CBA
18	B	826	CLA	C2-C3-C5-C6
18	B	826	CLA	C4-C3-C5-C6
18	B	827	CLA	C3A-C2A-CAA-CBA
18	B	831	CLA	C2A-CAA-CBA-CGA
18	B	832	CLA	C1A-C2A-CAA-CBA
18	B	832	CLA	C3A-C2A-CAA-CBA
18	B	834	CLA	CBD-CGD-O2D-CED
18	B	835	CLA	C1A-C2A-CAA-CBA
18	B	835	CLA	C3A-C2A-CAA-CBA
18	B	837	CLA	CHA-CBD-CGD-O1D
18	B	837	CLA	CHA-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
18	B	841	CLA	C14-C13-C15-C16
18	F	301	CLA	CBD-CGD-O2D-CED
18	J	101	CLA	C3A-C2A-CAA-CBA
18	K	206	CLA	CBD-CGD-O2D-CED
18	2	602	CLA	C1A-C2A-CAA-CBA
18	2	602	CLA	C3A-C2A-CAA-CBA
18	2	603	CLA	CBD-CGD-O2D-CED
18	2	604	CLA	C1A-C2A-CAA-CBA
18	2	604	CLA	C3A-C2A-CAA-CBA
18	2	609	CLA	C1A-C2A-CAA-CBA
18	2	609	CLA	C3A-C2A-CAA-CBA
18	2	610	CLA	C3A-C2A-CAA-CBA
18	2	610	CLA	CBD-CGD-O2D-CED
18	2	614	CLA	CBD-CGD-O2D-CED
18	6	603	CLA	C2-C3-C5-C6
18	6	603	CLA	C4-C3-C5-C6
18	6	604	CLA	C1A-C2A-CAA-CBA
18	6	609	CLA	CBD-CGD-O2D-CED
18	6	611	CLA	CHA-CBD-CGD-O2D
18	6	613	CLA	C1A-C2A-CAA-CBA
18	6	613	CLA	C3A-C2A-CAA-CBA
18	6	616	CLA	CBD-CGD-O2D-CED
18	3	602	CLA	CHA-CBD-CGD-O1D
18	3	602	CLA	CHA-CBD-CGD-O2D
18	3	607	CLA	C3A-C2A-CAA-CBA
18	3	610	CLA	CBD-CGD-O2D-CED
18	3	612	CLA	CBD-CGD-O2D-CED
18	5	604	CLA	CHA-CBD-CGD-O1D
18	5	604	CLA	CHA-CBD-CGD-O2D
18	5	604	CLA	CBD-CGD-O2D-CED
18	5	609	CLA	C1A-C2A-CAA-CBA
18	5	609	CLA	C3A-C2A-CAA-CBA
18	5	609	CLA	CHA-CBD-CGD-O2D
18	5	609	CLA	CAD-CBD-CGD-O2D
18	5	611	CLA	CMA-C3A-C4A-NA
18	5	611	CLA	CBD-CGD-O2D-CED
18	5	614	CLA	CAD-CBD-CGD-O1D
18	5	614	CLA	CAD-CBD-CGD-O2D
18	5	614	CLA	CBD-CGD-O2D-CED
19	A	844	PQN	C12-C13-C15-C16
19	A	844	PQN	C14-C13-C15-C16
19	A	844	PQN	C24-C23-C25-C26

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Mol	Chain	Res	Type	Atoms
20	A	846	LHG	C4-O6-P-O5
20	A	846	LHG	O7-C5-C6-O8
20	A	847	LHG	C3-O3-P-O4
20	A	847	LHG	C3-O3-P-O5
20	A	847	LHG	C4-O6-P-O5
20	A	847	LHG	O7-C5-C6-O8
20	B	851	LHG	C1-C2-C3-O3
20	B	851	LHG	C4-O6-P-O5
20	B	851	LHG	O9-C7-O7-C5
20	B	851	LHG	C8-C7-O7-C5
20	2	622	LHG	C1-C2-C3-O3
20	2	622	LHG	C3-O3-P-O5
20	2	622	LHG	C4-O6-P-O3
20	2	622	LHG	C4-O6-P-O4
20	2	622	LHG	C4-O6-P-O5
20	6	620	LHG	O1-C1-C2-O2
20	6	620	LHG	O1-C1-C2-C3
20	6	620	LHG	C3-O3-P-O4
20	6	620	LHG	C3-O3-P-O6
20	6	620	LHG	C4-O6-P-O3
20	6	620	LHG	C4-O6-P-O4
20	5	622	LHG	C1-C2-C3-O3
20	5	622	LHG	C4-O6-P-O4
21	A	849	BCR	C7-C8-C9-C34
21	A	851	BCR	C7-C8-C9-C34
21	A	851	BCR	C37-C22-C23-C24
21	A	851	BCR	C22-C23-C24-C25
21	A	851	BCR	C23-C24-C25-C30
21	A	852	BCR	C1-C6-C7-C8
21	A	852	BCR	C7-C8-C9-C10
21	A	852	BCR	C7-C8-C9-C34
21	A	852	BCR	C21-C22-C23-C24
21	A	852	BCR	C37-C22-C23-C24
21	A	856	BCR	C23-C24-C25-C30
21	B	801	BCR	C7-C8-C9-C10
21	B	801	BCR	C7-C8-C9-C34
21	B	843	BCR	C7-C8-C9-C34
21	B	843	BCR	C37-C22-C23-C24
21	B	844	BCR	C7-C8-C9-C34
21	B	844	BCR	C21-C22-C23-C24
21	B	845	BCR	C14-C15-C16-C17
21	B	845	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
21	B	845	BCR	C17-C18-C19-C20
21	B	845	BCR	C18-C19-C20-C21
21	B	845	BCR	C21-C22-C23-C24
21	B	845	BCR	C37-C22-C23-C24
21	B	846	BCR	C7-C8-C9-C34
21	B	846	BCR	C13-C14-C15-C16
21	B	846	BCR	C14-C15-C16-C17
21	B	846	BCR	C16-C17-C18-C19
21	B	846	BCR	C16-C17-C18-C36
21	B	846	BCR	C36-C18-C19-C20
21	B	846	BCR	C18-C19-C20-C21
21	B	846	BCR	C20-C21-C22-C37
21	B	846	BCR	C22-C23-C24-C25
21	B	847	BCR	C23-C24-C25-C30
21	B	848	BCR	C1-C6-C7-C8
21	B	848	BCR	C7-C8-C9-C10
21	B	848	BCR	C11-C10-C9-C8
21	B	848	BCR	C11-C10-C9-C34
21	B	848	BCR	C10-C11-C12-C13
21	B	848	BCR	C11-C12-C13-C35
21	F	302	BCR	C10-C11-C12-C13
21	F	302	BCR	C11-C12-C13-C35
21	F	302	BCR	C14-C15-C16-C17
21	F	302	BCR	C16-C17-C18-C36
21	G	205	BCR	C23-C24-C25-C30
21	I	101	BCR	C14-C15-C16-C17
21	J	102	BCR	C6-C7-C8-C9
21	J	103	BCR	C1-C6-C7-C8
21	J	103	BCR	C6-C7-C8-C9
21	J	103	BCR	C11-C10-C9-C8
21	J	103	BCR	C11-C12-C13-C14
21	J	103	BCR	C11-C12-C13-C35
21	J	103	BCR	C14-C15-C16-C17
21	J	103	BCR	C18-C19-C20-C21
21	J	103	BCR	C20-C21-C22-C23
21	J	103	BCR	C20-C21-C22-C37
21	J	103	BCR	C22-C23-C24-C25
21	K	202	BCR	C7-C8-C9-C34
21	K	207	BCR	C6-C7-C8-C9
21	K	207	BCR	C18-C19-C20-C21
21	K	207	BCR	C21-C22-C23-C24
21	K	207	BCR	C22-C23-C24-C25

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Mol	Chain	Res	Type	Atoms
21	L	301	BCR	C1-C6-C7-C8
21	L	305	BCR	C7-C8-C9-C34
21	L	305	BCR	C21-C22-C23-C24
21	L	305	BCR	C37-C22-C23-C24
21	L	305	BCR	C22-C23-C24-C25
21	L	305	BCR	C23-C24-C25-C26
21	L	305	BCR	C23-C24-C25-C30
21	3	620	BCR	C6-C7-C8-C9
21	3	620	BCR	C7-C8-C9-C10
21	3	620	BCR	C7-C8-C9-C34
21	3	620	BCR	C20-C21-C22-C23
21	3	620	BCR	C20-C21-C22-C37
21	3	620	BCR	C23-C24-C25-C30
21	3	622	BCR	C6-C7-C8-C9
21	3	622	BCR	C7-C8-C9-C10
21	3	622	BCR	C7-C8-C9-C34
21	3	622	BCR	C22-C23-C24-C25
21	5	621	BCR	C20-C21-C22-C37
21	5	621	BCR	C23-C24-C25-C30
23	B	850	DGD	O1B-C1B-O2G-C2G
24	J	104	LMG	O6-C1-O1-C7
24	2	617	LMG	C2-C1-O1-C7
24	2	617	LMG	O6-C1-O1-C7
25	2	616	CHL	CHA-CBD-CGD-O1D
25	2	616	CHL	CHA-CBD-CGD-O2D
25	5	606	CHL	C1C-C2C-CMC-OMC
25	5	608	CHL	C2A-CAA-CBA-CGA
26	2	619	LUT	C5-C6-C7-C8
26	2	619	LUT	C7-C8-C9-C10
26	2	619	LUT	C7-C8-C9-C19
26	6	617	LUT	C6-C7-C8-C9
26	6	617	LUT	C11-C10-C9-C8
26	6	617	LUT	C11-C10-C9-C19
26	6	617	LUT	C10-C11-C12-C13
26	6	617	LUT	C30-C31-C32-C33
26	3	618	LUT	C5-C6-C7-C8
26	3	618	LUT	C11-C10-C9-C8
26	3	618	LUT	C11-C10-C9-C19
26	3	618	LUT	C10-C11-C12-C13
26	3	618	LUT	C12-C13-C14-C15
26	3	618	LUT	C20-C13-C14-C15
26	3	618	LUT	C26-C27-C28-C29

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Mol	Chain	Res	Type	Atoms
26	5	619	LUT	C5-C6-C7-C8
26	5	619	LUT	C12-C13-C14-C15
26	5	619	LUT	C20-C13-C14-C15
26	5	619	LUT	C14-C15-C35-C34
27	2	620	XAT	O4-C6-C7-C8
18	F	303	CLA	O1D-CGD-O2D-CED
18	2	603	CLA	O1D-CGD-O2D-CED
18	6	606	CLA	O1D-CGD-O2D-CED
18	6	609	CLA	O1D-CGD-O2D-CED
18	A	801	CLA	O1D-CGD-O2D-CED
18	B	811	CLA	O1D-CGD-O2D-CED
18	5	604	CLA	O1D-CGD-O2D-CED
18	A	802	CLA	CBD-CGD-O2D-CED
18	A	812	CLA	CBD-CGD-O2D-CED
18	A	822	CLA	CBD-CGD-O2D-CED
18	B	809	CLA	CBD-CGD-O2D-CED
18	F	303	CLA	CBD-CGD-O2D-CED
18	K	201	CLA	CBD-CGD-O2D-CED
18	K	204	CLA	CBD-CGD-O2D-CED
18	2	613	CLA	CBD-CGD-O2D-CED
18	6	603	CLA	CBD-CGD-O2D-CED
18	6	606	CLA	CBD-CGD-O2D-CED
18	6	613	CLA	CBD-CGD-O2D-CED
18	3	603	CLA	CBD-CGD-O2D-CED
18	5	613	CLA	CBD-CGD-O2D-CED
25	5	608	CHL	CBD-CGD-O2D-CED
20	6	620	LHG	O10-C23-O8-C6
24	J	104	LMG	O10-C28-O8-C9
18	B	821	CLA	O1A-CGA-O2A-C1
18	A	811	CLA	O1D-CGD-O2D-CED
18	K	206	CLA	O1D-CGD-O2D-CED
18	6	616	CLA	O1D-CGD-O2D-CED
18	3	603	CLA	O1D-CGD-O2D-CED
18	B	821	CLA	CBA-CGA-O2A-C1
18	B	834	CLA	O1D-CGD-O2D-CED
18	3	610	CLA	O1D-CGD-O2D-CED
18	5	611	CLA	O1D-CGD-O2D-CED
20	6	620	LHG	C24-C23-O8-C6
18	A	814	CLA	CBD-CGD-O2D-CED
18	A	841	CLA	CBD-CGD-O2D-CED
18	A	854	CLA	CBD-CGD-O2D-CED
18	B	810	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
18	B	813	CLA	CBD-CGD-O2D-CED
18	B	819	CLA	CBD-CGD-O2D-CED
18	G	201	CLA	CBD-CGD-O2D-CED
18	K	203	CLA	CBD-CGD-O2D-CED
18	2	602	CLA	CBD-CGD-O2D-CED
18	A	806	CLA	O1A-CGA-O2A-C1
18	A	824	CLA	O1A-CGA-O2A-C1
18	A	845	CLA	O1A-CGA-O2A-C1
18	3	603	CLA	O1A-CGA-O2A-C1
20	5	622	LHG	O10-C23-O8-C6
18	B	810	CLA	O1A-CGA-O2A-C1
18	B	806	CLA	O1D-CGD-O2D-CED
18	3	612	CLA	O1D-CGD-O2D-CED
18	A	834	CLA	O1D-CGD-O2D-CED
18	2	610	CLA	O1D-CGD-O2D-CED
18	2	614	CLA	O1D-CGD-O2D-CED
18	5	614	CLA	O1D-CGD-O2D-CED
18	A	829	CLA	CBD-CGD-O2D-CED
18	G	203	CLA	CBD-CGD-O2D-CED
25	2	601	CHL	CBD-CGD-O2D-CED
25	5	615	CHL	CBD-CGD-O2D-CED
18	F	301	CLA	O1D-CGD-O2D-CED
18	6	613	CLA	O1D-CGD-O2D-CED
18	A	805	CLA	C3-C5-C6-C7
18	A	818	CLA	C3-C5-C6-C7
18	A	829	CLA	C3-C5-C6-C7
18	A	843	CLA	C3-C5-C6-C7
18	B	815	CLA	C3-C5-C6-C7
18	B	826	CLA	C3-C5-C6-C7
19	A	844	PQN	C13-C15-C16-C17
18	A	806	CLA	CBA-CGA-O2A-C1
18	A	812	CLA	CBA-CGA-O2A-C1
18	A	824	CLA	CBA-CGA-O2A-C1
18	A	845	CLA	CBA-CGA-O2A-C1
18	3	603	CLA	CBA-CGA-O2A-C1
20	5	622	LHG	C24-C23-O8-C6
23	B	850	DGD	C2B-C1B-O2G-C2G
18	2	613	CLA	O1D-CGD-O2D-CED
18	5	613	CLA	O1D-CGD-O2D-CED
18	K	204	CLA	O1D-CGD-O2D-CED
18	A	839	CLA	C4-C3-C5-C6
18	A	839	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
18	A	824	CLA	CBD-CGD-O2D-CED
18	A	832	CLA	CBD-CGD-O2D-CED
25	2	606	CHL	CBD-CGD-O2D-CED
18	A	824	CLA	C2A-CAA-CBA-CGA
18	A	830	CLA	C2A-CAA-CBA-CGA
18	A	833	CLA	C2A-CAA-CBA-CGA
18	A	843	CLA	C2A-CAA-CBA-CGA
18	B	817	CLA	C2A-CAA-CBA-CGA
18	B	835	CLA	C2A-CAA-CBA-CGA
18	G	203	CLA	C2A-CAA-CBA-CGA
18	6	616	CLA	C2A-CAA-CBA-CGA
18	A	801	CLA	C3-C5-C6-C7
18	B	806	CLA	C3-C5-C6-C7
18	A	818	CLA	CBA-CGA-O2A-C1
18	A	839	CLA	CBA-CGA-O2A-C1
18	B	815	CLA	CBA-CGA-O2A-C1
18	6	604	CLA	CBA-CGA-O2A-C1
18	A	831	CLA	CBD-CGD-O2D-CED
18	B	809	CLA	O1D-CGD-O2D-CED
18	K	201	CLA	O1D-CGD-O2D-CED
18	A	829	CLA	O1A-CGA-O2A-C1
18	6	604	CLA	O1A-CGA-O2A-C1
25	5	608	CHL	O1D-CGD-O2D-CED
21	B	845	BCR	C13-C14-C15-C16
21	B	845	BCR	C15-C16-C17-C18
21	B	846	BCR	C19-C20-C21-C22
18	A	803	CLA	CBD-CGD-O2D-CED
18	A	818	CLA	CBD-CGD-O2D-CED
18	B	803	CLA	CBD-CGD-O2D-CED
18	B	821	CLA	CBD-CGD-O2D-CED
18	B	835	CLA	CBD-CGD-O2D-CED
25	2	616	CHL	CBD-CGD-O2D-CED
20	2	622	LHG	O2-C2-C3-O3
20	5	622	LHG	O2-C2-C3-O3
18	A	826	CLA	C3-C5-C6-C7
19	B	842	PQN	C13-C15-C16-C17
18	A	829	CLA	CBA-CGA-O2A-C1
18	B	811	CLA	CBA-CGA-O2A-C1
18	A	812	CLA	O1A-CGA-O2A-C1
18	A	818	CLA	O1A-CGA-O2A-C1
18	A	839	CLA	O1A-CGA-O2A-C1
24	J	104	LMG	O6-C5-C6-O5

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Mol	Chain	Res	Type	Atoms
18	A	802	CLA	O1D-CGD-O2D-CED
25	5	607	CHL	CBD-CGD-O2D-CED
18	B	811	CLA	O1A-CGA-O2A-C1
18	A	839	CLA	CBD-CGD-O2D-CED
18	B	804	CLA	CBD-CGD-O2D-CED
18	A	804	CLA	C3-C5-C6-C7
18	A	854	CLA	C3-C5-C6-C7
18	B	809	CLA	C3-C5-C6-C7
24	J	104	LMG	C29-C28-O8-C9
18	A	822	CLA	O1D-CGD-O2D-CED
18	A	845	CLA	C3-C5-C6-C7
18	B	840	CLA	C4-C3-C5-C6
18	A	818	CLA	C2-C3-C5-C6
18	B	840	CLA	C2-C3-C5-C6
18	F	305	CLA	C2A-CAA-CBA-CGA
18	6	603	CLA	O1D-CGD-O2D-CED
18	B	815	CLA	O1A-CGA-O2A-C1
18	G	203	CLA	CBA-CGA-O2A-C1
20	2	622	LHG	C23-C24-C25-C26
18	A	812	CLA	O1D-CGD-O2D-CED
18	B	819	CLA	O1D-CGD-O2D-CED
18	A	854	CLA	O1D-CGD-O2D-CED
18	K	203	CLA	O1D-CGD-O2D-CED
18	A	834	CLA	C3-C5-C6-C7
18	B	807	CLA	C3-C5-C6-C7
18	B	831	CLA	CBA-CGA-O2A-C1
18	A	815	CLA	CBD-CGD-O2D-CED
18	B	810	CLA	O1D-CGD-O2D-CED
18	2	602	CLA	O1D-CGD-O2D-CED
21	B	846	BCR	C15-C16-C17-C18
21	B	848	BCR	C9-C10-C11-C12
21	F	302	BCR	C9-C10-C11-C12
21	F	302	BCR	C13-C14-C15-C16
21	J	102	BCR	C9-C10-C11-C12
20	A	846	LHG	C7-C8-C9-C10
18	B	806	CLA	C15-C16-C17-C18
18	B	813	CLA	C5-C6-C7-C8
20	B	851	LHG	O2-C2-C3-O3
23	B	850	DGD	C2E-C1E-O5D-C6D
24	J	104	LMG	C2-C1-O1-C7
18	B	828	CLA	CBA-CGA-O2A-C1
18	A	803	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
18	A	827	CLA	C6-C7-C8-C9
18	A	839	CLA	C14-C13-C15-C16
18	A	841	CLA	C6-C7-C8-C9
18	A	841	CLA	C14-C13-C15-C16
18	B	825	CLA	C11-C10-C8-C9
18	B	813	CLA	O1D-CGD-O2D-CED
18	G	201	CLA	O1D-CGD-O2D-CED
18	F	304	CLA	CBD-CGD-O2D-CED
21	B	844	BCR	C37-C22-C23-C24
21	B	845	BCR	C7-C8-C9-C34
21	J	102	BCR	C11-C12-C13-C35
21	J	103	BCR	C37-C22-C23-C24
21	K	207	BCR	C11-C12-C13-C35
21	3	622	BCR	C37-C22-C23-C24
27	2	620	XAT	C7-C8-C9-C19
21	A	851	BCR	C21-C22-C23-C24
21	B	848	BCR	C11-C12-C13-C14
21	3	622	BCR	C21-C22-C23-C24
27	2	620	XAT	C7-C8-C9-C10
27	5	620	XAT	C27-C28-C29-C30
23	B	850	DGD	C1A-C2A-C3A-C4A
24	2	618	LMG	O6-C5-C6-O5
18	A	841	CLA	O1D-CGD-O2D-CED
18	A	843	CLA	CBA-CGA-O2A-C1
18	A	818	CLA	C10-C11-C12-C13
18	A	829	CLA	C13-C15-C16-C17
18	A	835	CLA	C5-C6-C7-C8
18	A	841	CLA	C5-C6-C7-C8
18	B	803	CLA	C10-C11-C12-C13
18	B	825	CLA	C13-C15-C16-C17
18	B	840	CLA	C15-C16-C17-C18
20	A	846	LHG	C28-C29-C30-C31
18	A	831	CLA	C5-C6-C7-C8
20	A	846	LHG	C23-C24-C25-C26
20	A	847	LHG	C7-C8-C9-C10
20	6	620	LHG	C23-C24-C25-C26
18	6	602	CLA	CBD-CGD-O2D-CED
18	A	830	CLA	C15-C16-C17-C18
18	A	814	CLA	O1D-CGD-O2D-CED
18	A	843	CLA	C2-C1-O2A-CGA
18	B	825	CLA	C10-C11-C12-C13
18	B	826	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
24	J	104	LMG	C28-C29-C30-C31
18	A	808	CLA	CBD-CGD-O2D-CED
18	A	828	CLA	CBA-CGA-O2A-C1
18	B	813	CLA	C15-C16-C17-C18
18	A	826	CLA	C11-C10-C8-C7
18	B	831	CLA	O1A-CGA-O2A-C1
21	J	103	BCR	C9-C10-C11-C12
18	A	809	CLA	C2A-CAA-CBA-CGA
18	A	818	CLA	C2A-CAA-CBA-CGA
18	A	825	CLA	C2A-CAA-CBA-CGA
18	G	201	CLA	C2A-CAA-CBA-CGA
18	G	203	CLA	O1D-CGD-O2D-CED
25	5	615	CHL	O1D-CGD-O2D-CED
18	A	834	CLA	C5-C6-C7-C8
18	B	815	CLA	C8-C10-C11-C12
18	2	609	CLA	C5-C6-C7-C8
21	A	849	BCR	C6-C7-C8-C9
18	B	827	CLA	CBD-CGD-O2D-CED
23	B	850	DGD	O6E-C1E-O5D-C6D
21	G	205	BCR	C10-C11-C12-C13
21	J	103	BCR	C10-C11-C12-C13
26	2	619	LUT	C10-C11-C12-C13
26	5	619	LUT	C30-C31-C32-C33
23	B	850	DGD	O6E-C5E-C6E-O5E
24	2	617	LMG	C4-C5-C6-O5
18	B	840	CLA	C13-C15-C16-C17
18	B	828	CLA	O1A-CGA-O2A-C1
18	A	804	CLA	C8-C10-C11-C12
18	B	807	CLA	C10-C11-C12-C13
18	A	829	CLA	O1D-CGD-O2D-CED
24	J	104	LMG	C4-C5-C6-O5
18	A	843	CLA	O1A-CGA-O2A-C1
18	G	203	CLA	O1A-CGA-O2A-C1
25	2	606	CHL	O1D-CGD-O2D-CED
18	B	807	CLA	C8-C10-C11-C12
19	A	844	PQN	C18-C20-C21-C22
20	A	847	LHG	C3-O3-P-O6
20	A	847	LHG	C4-O6-P-O3
20	5	622	LHG	C4-O6-P-O3
20	2	622	LHG	C7-C8-C9-C10
18	6	603	CLA	CBA-CGA-O2A-C1
25	2	601	CHL	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
18	B	820	CLA	C2A-CAA-CBA-CGA
18	3	613	CLA	C4-C3-C5-C6
18	A	839	CLA	C13-C15-C16-C17
18	A	854	CLA	C2A-CAA-CBA-CGA
18	B	804	CLA	C2A-CAA-CBA-CGA
18	K	201	CLA	C2A-CAA-CBA-CGA
18	6	603	CLA	C6-C7-C8-C10
21	J	103	BCR	C15-C16-C17-C18
26	2	619	LUT	C9-C10-C11-C12
18	B	811	CLA	C5-C6-C7-C8
21	A	852	BCR	C16-C17-C18-C36
21	A	852	BCR	C20-C21-C22-C37
21	B	845	BCR	C20-C21-C22-C37
21	I	101	BCR	C20-C21-C22-C37
21	J	103	BCR	C16-C17-C18-C36
21	K	207	BCR	C16-C17-C18-C36
21	L	301	BCR	C16-C17-C18-C36
21	L	301	BCR	C20-C21-C22-C37
21	2	621	BCR	C20-C21-C22-C37
21	5	621	BCR	C16-C17-C18-C36
26	2	619	LUT	C11-C10-C9-C19
26	6	617	LUT	C39-C29-C30-C31
26	6	617	LUT	C40-C33-C34-C35
18	3	613	CLA	C3-C5-C6-C7
18	A	824	CLA	O1D-CGD-O2D-CED
18	A	832	CLA	O1D-CGD-O2D-CED
18	A	812	CLA	C16-C17-C18-C20
18	A	825	CLA	C6-C7-C8-C10
18	A	831	CLA	O1D-CGD-O2D-CED
20	5	622	LHG	C5-C4-O6-P
20	5	622	LHG	C23-C24-C25-C26
21	A	852	BCR	C16-C17-C18-C19
21	B	845	BCR	C16-C17-C18-C19
21	B	845	BCR	C20-C21-C22-C23
21	B	846	BCR	C20-C21-C22-C23
21	F	302	BCR	C16-C17-C18-C19
21	J	102	BCR	C11-C10-C9-C8
21	J	103	BCR	C16-C17-C18-C19
21	L	301	BCR	C11-C10-C9-C8
21	5	621	BCR	C20-C21-C22-C23
26	2	619	LUT	C11-C10-C9-C8
26	6	617	LUT	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
26	6	617	LUT	C32-C33-C34-C35
23	B	850	DGD	C9A-CAA-CBA-CCA
18	2	609	CLA	C6-C7-C8-C10
18	3	613	CLA	C6-C7-C8-C9
18	B	835	CLA	O1D-CGD-O2D-CED
20	A	846	LHG	C13-C14-C15-C16
18	3	613	CLA	C2-C3-C5-C6
18	A	804	CLA	C11-C10-C8-C9
18	A	841	CLA	C11-C10-C8-C9
18	B	806	CLA	C11-C10-C8-C9
18	B	809	CLA	C11-C10-C8-C9
18	A	818	CLA	O1D-CGD-O2D-CED
18	A	838	CLA	C2A-CAA-CBA-CGA
18	B	828	CLA	C2A-CAA-CBA-CGA
25	2	601	CHL	C2A-CAA-CBA-CGA
25	6	601	CHL	C2A-CAA-CBA-CGA
18	6	603	CLA	O1A-CGA-O2A-C1
27	5	620	XAT	C27-C28-C29-C39
23	B	850	DGD	C4B-C5B-C6B-C7B
20	A	847	LHG	O1-C1-C2-C3
20	5	622	LHG	O1-C1-C2-C3
21	F	302	BCR	C11-C12-C13-C14
21	J	103	BCR	C21-C22-C23-C24
21	L	305	BCR	C7-C8-C9-C10
20	A	846	LHG	C9-C10-C11-C12
20	6	620	LHG	C7-C8-C9-C10
18	A	814	CLA	C16-C17-C18-C19
18	K	201	CLA	CBA-CGA-O2A-C1
18	B	823	CLA	CBD-CGD-O2D-CED
18	B	803	CLA	O1D-CGD-O2D-CED
20	5	622	LHG	C11-C10-C9-C8
23	B	850	DGD	CAB-CBB-CCB-CDB
18	A	803	CLA	O1D-CGD-O2D-CED
25	2	616	CHL	O1D-CGD-O2D-CED
18	A	804	CLA	C3A-C2A-CAA-CBA
18	A	807	CLA	C3A-C2A-CAA-CBA
18	A	834	CLA	C3A-C2A-CAA-CBA
18	A	838	CLA	C3A-C2A-CAA-CBA
18	B	810	CLA	C3A-C2A-CAA-CBA
18	B	813	CLA	C3A-C2A-CAA-CBA
18	B	833	CLA	C3A-C2A-CAA-CBA
18	B	840	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
18	3	603	CLA	C3A-C2A-CAA-CBA
18	5	612	CLA	C3A-C2A-CAA-CBA
18	B	821	CLA	O1D-CGD-O2D-CED
18	3	613	CLA	C6-C7-C8-C10
18	2	609	CLA	C4-C3-C5-C6
25	5	607	CHL	O1D-CGD-O2D-CED
18	A	826	CLA	CBD-CGD-O2D-CED
18	A	825	CLA	C6-C7-C8-C9
18	A	806	CLA	C2-C1-O2A-CGA
18	A	829	CLA	C2-C1-O2A-CGA
18	B	809	CLA	C10-C11-C12-C13
18	B	836	CLA	C5-C6-C7-C8
21	A	848	BCR	C23-C24-C25-C26
21	A	848	BCR	C23-C24-C25-C30
21	A	851	BCR	C23-C24-C25-C26
21	A	852	BCR	C5-C6-C7-C8
21	A	856	BCR	C1-C6-C7-C8
21	A	856	BCR	C23-C24-C25-C26
21	B	846	BCR	C23-C24-C25-C26
21	B	846	BCR	C23-C24-C25-C30
21	B	847	BCR	C23-C24-C25-C26
21	B	848	BCR	C5-C6-C7-C8
21	B	848	BCR	C23-C24-C25-C26
21	B	848	BCR	C23-C24-C25-C30
21	G	205	BCR	C23-C24-C25-C26
21	J	103	BCR	C5-C6-C7-C8
21	J	103	BCR	C23-C24-C25-C26
21	J	103	BCR	C23-C24-C25-C30
21	K	207	BCR	C23-C24-C25-C30
21	L	301	BCR	C5-C6-C7-C8
21	L	305	BCR	C5-C6-C7-C8
21	3	620	BCR	C23-C24-C25-C26
21	5	621	BCR	C1-C6-C7-C8
21	5	621	BCR	C5-C6-C7-C8
21	5	621	BCR	C23-C24-C25-C26
26	6	617	LUT	C5-C6-C7-C8
19	A	844	PQN	C15-C16-C17-C18
24	2	617	LMG	O6-C5-C6-O5
23	B	850	DGD	CBA-CCA-CDA-CEA
18	A	804	CLA	C11-C10-C8-C7
18	A	827	CLA	C6-C7-C8-C10
18	A	831	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
18	A	831	CLA	C12-C13-C15-C16
18	A	841	CLA	C6-C7-C8-C10
18	A	841	CLA	C12-C13-C15-C16
18	B	805	CLA	C11-C10-C8-C7
18	B	806	CLA	C11-C10-C8-C7
18	B	809	CLA	C11-C10-C8-C7
18	B	809	CLA	C12-C13-C15-C16
18	B	815	CLA	C6-C7-C8-C10
18	B	825	CLA	C11-C10-C8-C7
18	2	609	CLA	C2-C3-C5-C6
19	B	842	PQN	C22-C23-C25-C26
18	A	814	CLA	C5-C6-C7-C8
18	A	829	CLA	C10-C11-C12-C13
20	A	847	LHG	C24-C23-O8-C6
18	A	803	CLA	C2A-CAA-CBA-CGA
18	B	803	CLA	C2A-CAA-CBA-CGA
18	2	613	CLA	C2A-CAA-CBA-CGA
18	6	613	CLA	C2A-CAA-CBA-CGA
18	A	818	CLA	C5-C6-C7-C8
23	B	850	DGD	CAA-CBA-CCA-CDA
23	B	850	DGD	O6D-C1D-O3G-C3G
18	A	843	CLA	C5-C6-C7-C8
18	A	839	CLA	O1D-CGD-O2D-CED
20	A	846	LHG	C32-C33-C34-C35
20	A	846	LHG	C8-C7-O7-C5
20	2	622	LHG	C8-C7-O7-C5
21	L	301	BCR	C10-C11-C12-C13
18	B	813	CLA	C13-C15-C16-C17
18	A	812	CLA	C16-C17-C18-C19
18	6	603	CLA	C6-C7-C8-C9
18	A	826	CLA	C11-C10-C8-C9
18	A	827	CLA	C11-C12-C13-C14
18	A	831	CLA	C11-C10-C8-C9
18	B	805	CLA	C11-C10-C8-C9
18	B	815	CLA	C6-C7-C8-C9
18	3	602	CLA	C11-C10-C8-C9
18	B	804	CLA	O1D-CGD-O2D-CED
18	B	810	CLA	C2A-CAA-CBA-CGA
18	G	204	CLA	C2A-CAA-CBA-CGA
18	6	602	CLA	C2A-CAA-CBA-CGA
21	2	621	BCR	C11-C12-C13-C35
21	A	848	BCR	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
18	A	804	CLA	C1A-C2A-CAA-CBA
18	A	807	CLA	C1A-C2A-CAA-CBA
18	A	810	CLA	C1A-C2A-CAA-CBA
18	A	819	CLA	C1A-C2A-CAA-CBA
18	A	825	CLA	C1A-C2A-CAA-CBA
18	A	827	CLA	C1A-C2A-CAA-CBA
18	A	834	CLA	C1A-C2A-CAA-CBA
18	A	838	CLA	C1A-C2A-CAA-CBA
18	A	845	CLA	C1A-C2A-CAA-CBA
18	B	805	CLA	C1A-C2A-CAA-CBA
18	B	810	CLA	C1A-C2A-CAA-CBA
18	B	823	CLA	C1A-C2A-CAA-CBA
18	B	825	CLA	C1A-C2A-CAA-CBA
18	B	827	CLA	C1A-C2A-CAA-CBA
18	B	828	CLA	C1A-C2A-CAA-CBA
18	B	833	CLA	C1A-C2A-CAA-CBA
18	B	840	CLA	C1A-C2A-CAA-CBA
18	2	610	CLA	C1A-C2A-CAA-CBA
18	6	610	CLA	C1A-C2A-CAA-CBA
18	3	603	CLA	C1A-C2A-CAA-CBA
18	5	612	CLA	C1A-C2A-CAA-CBA
18	A	814	CLA	C16-C17-C18-C20
18	2	609	CLA	C6-C7-C8-C9
18	A	835	CLA	C13-C15-C16-C17
18	5	611	CLA	CMA-C3A-C4A-CHB
18	B	841	CLA	C13-C15-C16-C17
18	B	807	CLA	C4-C3-C5-C6
20	A	846	LHG	C4-C5-C6-O8
20	5	622	LHG	C24-C25-C26-C27
18	A	815	CLA	O1D-CGD-O2D-CED
18	F	304	CLA	O1D-CGD-O2D-CED
18	B	840	CLA	CAA-CBA-CGA-O2A
20	5	622	LHG	O1-C1-C2-O2
20	2	622	LHG	C11-C12-C13-C14
20	2	622	LHG	C27-C28-C29-C30
21	J	102	BCR	C11-C10-C9-C34
21	J	103	BCR	C11-C10-C9-C34
21	L	305	BCR	C16-C17-C18-C36
18	A	835	CLA	C4-C3-C5-C6
18	B	825	CLA	C4-C3-C5-C6
18	B	836	CLA	CBA-CGA-O2A-C1
18	B	841	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
18	A	842	CLA	C2A-CAA-CBA-CGA
18	A	828	CLA	O1A-CGA-O2A-C1
19	B	842	PQN	C20-C21-C22-C23
20	6	620	LHG	C24-C25-C26-C27
18	B	809	CLA	C13-C15-C16-C17
18	A	808	CLA	O1D-CGD-O2D-CED
21	B	848	BCR	C12-C13-C14-C15
23	B	850	DGD	C2A-C3A-C4A-C5A
18	A	812	CLA	C11-C12-C13-C15
18	A	814	CLA	C6-C7-C8-C10
18	A	827	CLA	C11-C12-C13-C15
18	A	829	CLA	C6-C7-C8-C10
18	A	829	CLA	C11-C12-C13-C15
18	A	839	CLA	C12-C13-C15-C16
18	A	843	CLA	C6-C7-C8-C10
18	B	805	CLA	C11-C12-C13-C15
18	B	825	CLA	C2-C3-C5-C6
18	B	841	CLA	C12-C13-C15-C16
19	A	844	PQN	C22-C23-C25-C26
18	A	812	CLA	C11-C12-C13-C14
18	A	829	CLA	C11-C12-C13-C14
18	B	803	CLA	C11-C10-C8-C9
18	B	805	CLA	C6-C7-C8-C9
18	B	806	CLA	C11-C12-C13-C14
18	B	826	CLA	C11-C12-C13-C14
18	B	836	CLA	C11-C10-C8-C9
18	B	841	CLA	C11-C12-C13-C14
18	A	805	CLA	C6-C7-C8-C10
21	B	846	BCR	C7-C8-C9-C10
21	K	202	BCR	C7-C8-C9-C10
24	J	104	LMG	C30-C31-C32-C33
18	A	819	CLA	CBD-CGD-O2D-CED
20	6	620	LHG	O6-C4-C5-C6
20	6	620	LHG	C11-C10-C9-C8
18	A	835	CLA	C2-C3-C5-C6
20	A	846	LHG	O9-C7-O7-C5
23	B	850	DGD	C9B-CAB-CBB-CCB
18	B	811	CLA	C6-C7-C8-C9
20	A	846	LHG	C27-C28-C29-C30
18	B	841	CLA	O1A-CGA-O2A-C1
18	B	828	CLA	C3A-C2A-CAA-CBA
18	6	604	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
23	B	850	DGD	CCA-CDA-CEA-CFA
20	B	851	LHG	C4-C5-C6-O8
20	2	622	LHG	C4-C5-C6-O8
23	B	850	DGD	O1G-C1G-C2G-C3G
23	B	850	DGD	C4E-C5E-C6E-O5E
18	B	836	CLA	O1A-CGA-O2A-C1
18	B	807	CLA	C2-C3-C5-C6
18	B	827	CLA	O1D-CGD-O2D-CED
18	6	602	CLA	O1D-CGD-O2D-CED
20	2	622	LHG	C12-C13-C14-C15
25	5	606	CHL	C3C-C2C-CMC-OMC
18	B	823	CLA	O1D-CGD-O2D-CED
20	B	851	LHG	C24-C23-O8-C6
18	6	608	CLA	C2A-CAA-CBA-CGA
18	A	814	CLA	C15-C16-C17-C18
19	A	844	PQN	C25-C26-C27-C28
23	B	850	DGD	C6B-C7B-C8B-C9B
18	A	805	CLA	C6-C7-C8-C9
18	A	854	CLA	C2-C1-O2A-CGA
18	B	806	CLA	C2-C1-O2A-CGA
18	B	815	CLA	C2-C1-O2A-CGA
18	A	826	CLA	O1D-CGD-O2D-CED
18	A	806	CLA	C11-C10-C8-C9
18	A	818	CLA	C14-C13-C15-C16
18	A	834	CLA	C6-C7-C8-C9
18	B	813	CLA	C11-C12-C13-C14
18	B	825	CLA	C6-C7-C8-C9
18	B	826	CLA	C6-C7-C8-C9
19	B	842	PQN	C16-C17-C18-C19
18	B	813	CLA	C2C-C3C-CAC-CBC
18	A	829	CLA	C15-C16-C17-C18
18	B	807	CLA	C2A-CAA-CBA-CGA
25	2	607	CHL	CBD-CGD-O2D-CED
21	A	848	BCR	C1-C6-C7-C8
21	A	848	BCR	C5-C6-C7-C8
21	A	849	BCR	C1-C6-C7-C8
21	A	849	BCR	C5-C6-C7-C8
21	A	850	BCR	C1-C6-C7-C8
21	A	850	BCR	C5-C6-C7-C8
21	A	851	BCR	C1-C6-C7-C8
21	A	851	BCR	C5-C6-C7-C8
21	A	856	BCR	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
21	B	801	BCR	C1-C6-C7-C8
21	B	801	BCR	C5-C6-C7-C8
21	B	801	BCR	C23-C24-C25-C26
21	B	843	BCR	C1-C6-C7-C8
21	B	843	BCR	C5-C6-C7-C8
21	B	843	BCR	C23-C24-C25-C26
21	B	843	BCR	C23-C24-C25-C30
21	B	844	BCR	C1-C6-C7-C8
21	B	844	BCR	C5-C6-C7-C8
21	B	845	BCR	C1-C6-C7-C8
21	B	845	BCR	C5-C6-C7-C8
21	B	845	BCR	C23-C24-C25-C26
21	B	845	BCR	C23-C24-C25-C30
21	B	846	BCR	C1-C6-C7-C8
21	B	846	BCR	C5-C6-C7-C8
21	G	205	BCR	C1-C6-C7-C8
21	G	205	BCR	C5-C6-C7-C8
21	K	202	BCR	C1-C6-C7-C8
21	K	202	BCR	C5-C6-C7-C8
21	K	202	BCR	C23-C24-C25-C26
21	K	207	BCR	C1-C6-C7-C8
21	K	207	BCR	C5-C6-C7-C8
21	K	207	BCR	C23-C24-C25-C26
21	L	301	BCR	C23-C24-C25-C26
21	L	305	BCR	C1-C6-C7-C8
21	2	621	BCR	C1-C6-C7-C8
21	2	621	BCR	C5-C6-C7-C8
21	2	621	BCR	C23-C24-C25-C26
21	2	621	BCR	C23-C24-C25-C30
21	3	622	BCR	C23-C24-C25-C26
21	3	622	BCR	C23-C24-C25-C30
18	A	834	CLA	C8-C10-C11-C12
18	A	816	CLA	C1A-C2A-CAA-CBA
18	J	101	CLA	C1A-C2A-CAA-CBA
21	A	849	BCR	C7-C8-C9-C10
21	B	843	BCR	C21-C22-C23-C24
21	J	102	BCR	C7-C8-C9-C10
25	5	607	CHL	C1A-C2A-CAA-CBA
18	B	811	CLA	C6-C7-C8-C10
18	B	807	CLA	C5-C6-C7-C8
20	A	847	LHG	O2-C2-C3-O3
18	K	201	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
18	A	818	CLA	C6-C7-C8-C10
18	A	818	CLA	C12-C13-C15-C16
18	A	826	CLA	C6-C7-C8-C10
18	A	827	CLA	C12-C13-C15-C16
18	A	834	CLA	C6-C7-C8-C10
18	A	839	CLA	C6-C7-C8-C10
18	B	803	CLA	C11-C10-C8-C7
18	B	806	CLA	C11-C12-C13-C15
18	B	806	CLA	C12-C13-C15-C16
18	B	807	CLA	C12-C13-C15-C16
18	B	825	CLA	C6-C7-C8-C10
18	B	826	CLA	C11-C12-C13-C15
18	B	841	CLA	C11-C12-C13-C15
18	3	602	CLA	C6-C7-C8-C10
19	B	842	PQN	C21-C22-C23-C25
21	J	103	BCR	C13-C14-C15-C16
18	2	604	CLA	CBA-CGA-O2A-C1
21	A	856	BCR	C20-C21-C22-C37
21	B	843	BCR	C20-C21-C22-C37
21	B	844	BCR	C20-C21-C22-C37
21	B	845	BCR	C35-C13-C14-C15
21	K	202	BCR	C20-C21-C22-C37
21	3	620	BCR	C16-C17-C18-C36
26	5	619	LUT	C11-C10-C9-C19
18	A	806	CLA	C3-C5-C6-C7
18	B	822	CLA	C3-C5-C6-C7
18	B	822	CLA	CBD-CGD-O2D-CED
18	A	806	CLA	CAD-CBD-CGD-O2D
18	A	808	CLA	CAD-CBD-CGD-O2D
18	A	810	CLA	CAD-CBD-CGD-O2D
18	A	813	CLA	CAD-CBD-CGD-O2D
18	A	819	CLA	CAD-CBD-CGD-O2D
18	A	829	CLA	CAD-CBD-CGD-O2D
18	A	832	CLA	CAD-CBD-CGD-O2D
18	A	845	CLA	CAD-CBD-CGD-O2D
18	B	819	CLA	CAD-CBD-CGD-O2D
18	B	830	CLA	CAD-CBD-CGD-O2D
18	B	832	CLA	CAD-CBD-CGD-O2D
18	B	836	CLA	CAD-CBD-CGD-O2D
18	F	301	CLA	CAD-CBD-CGD-O2D
18	2	604	CLA	CAD-CBD-CGD-O2D
18	2	613	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
18	6	606	CLA	CAD-CBD-CGD-O2D
18	6	609	CLA	CAD-CBD-CGD-O2D
18	5	610	CLA	CAD-CBD-CGD-O2D
18	5	612	CLA	CAD-CBD-CGD-O2D
20	B	851	LHG	C6-C5-O7-C7
21	A	849	BCR	C22-C23-C24-C25
21	2	621	BCR	C6-C7-C8-C9
18	A	825	CLA	CBA-CGA-O2A-C1
20	A	847	LHG	C4-C5-C6-O8
20	2	622	LHG	C2-C3-O3-P
18	2	604	CLA	O1A-CGA-O2A-C1
18	B	832	CLA	C2A-CAA-CBA-CGA
18	B	806	CLA	C16-C17-C18-C19
24	J	104	LMG	O9-C10-O7-C8
18	A	814	CLA	CHA-CBD-CGD-O1D
18	A	814	CLA	CHA-CBD-CGD-O2D
18	A	815	CLA	CHA-CBD-CGD-O1D
18	A	823	CLA	CHA-CBD-CGD-O1D
18	A	840	CLA	CHA-CBD-CGD-O1D
18	A	841	CLA	CHA-CBD-CGD-O2D
18	B	804	CLA	CHA-CBD-CGD-O1D
18	B	804	CLA	CHA-CBD-CGD-O2D
18	B	805	CLA	CHA-CBD-CGD-O1D
18	B	805	CLA	CHA-CBD-CGD-O2D
18	B	810	CLA	CHA-CBD-CGD-O1D
18	B	810	CLA	CHA-CBD-CGD-O2D
18	B	815	CLA	CHA-CBD-CGD-O1D
18	B	815	CLA	CHA-CBD-CGD-O2D
18	B	821	CLA	CHA-CBD-CGD-O1D
18	B	821	CLA	CHA-CBD-CGD-O2D
18	B	826	CLA	CHA-CBD-CGD-O1D
18	B	826	CLA	CHA-CBD-CGD-O2D
18	J	101	CLA	CHA-CBD-CGD-O1D
18	J	101	CLA	CHA-CBD-CGD-O2D
18	5	614	CLA	CHA-CBD-CGD-O1D
24	J	104	LMG	C29-C30-C31-C32
21	B	845	BCR	C11-C10-C9-C8
23	B	850	DGD	C2D-C1D-O3G-C3G
20	2	622	LHG	O7-C5-C6-O8
23	B	850	DGD	O1G-C1G-C2G-O2G
18	B	833	CLA	CBD-CGD-O2D-CED
20	5	622	LHG	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
18	A	819	CLA	O1D-CGD-O2D-CED
18	A	812	CLA	C15-C16-C17-C18
18	A	829	CLA	C5-C6-C7-C8
21	A	851	BCR	C11-C12-C13-C35
21	K	207	BCR	C37-C22-C23-C24
20	2	622	LHG	O1-C1-C2-C3
20	2	622	LHG	C24-C25-C26-C27
18	A	814	CLA	C1A-C2A-CAA-CBA
18	B	813	CLA	C1A-C2A-CAA-CBA
18	B	834	CLA	C1A-C2A-CAA-CBA
18	6	614	CLA	CHA-CBD-CGD-O2D
18	5	610	CLA	C1A-C2A-CAA-CBA
25	2	608	CHL	CHA-CBD-CGD-O2D
25	5	608	CHL	C1A-C2A-CAA-CBA
25	2	607	CHL	O1D-CGD-O2D-CED
18	A	825	CLA	O1A-CGA-O2A-C1
20	A	847	LHG	C4-O6-P-O4
20	5	622	LHG	C3-O3-P-O4
18	A	827	CLA	C16-C17-C18-C20
18	A	805	CLA	CBA-CGA-O2A-C1
20	A	846	LHG	O6-C4-C5-C6
20	A	847	LHG	O6-C4-C5-C6
20	A	846	LHG	C24-C25-C26-C27
18	B	802	CLA	CAA-CBA-CGA-O2A
18	3	613	CLA	C2A-CAA-CBA-CGA
18	A	806	CLA	C16-C17-C18-C19
18	A	814	CLA	CAD-CBD-CGD-O1D
18	A	815	CLA	CAD-CBD-CGD-O1D
18	A	816	CLA	CAD-CBD-CGD-O1D
18	A	826	CLA	CAD-CBD-CGD-O1D
18	A	834	CLA	CAD-CBD-CGD-O1D
18	B	817	CLA	CAD-CBD-CGD-O1D
18	B	821	CLA	CAD-CBD-CGD-O1D
18	B	837	CLA	CAD-CBD-CGD-O1D
18	B	840	CLA	CAD-CBD-CGD-O1D
18	J	101	CLA	CAD-CBD-CGD-O1D
18	6	616	CLA	CAD-CBD-CGD-O1D
18	5	604	CLA	CAD-CBD-CGD-O1D
25	5	607	CHL	CAD-CBD-CGD-O1D
18	A	831	CLA	C16-C17-C18-C20
18	B	807	CLA	C11-C10-C8-C7
18	B	840	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
18	3	611	CLA	CAD-CBD-CGD-O2D
20	A	846	LHG	O6-C4-C5-O7
20	A	847	LHG	O6-C4-C5-O7
20	6	620	LHG	O6-C4-C5-O7
25	3	608	CHL	CAD-CBD-CGD-O2D
18	B	816	CLA	C2A-CAA-CBA-CGA
18	B	811	CLA	C3-C5-C6-C7
18	3	617	CLA	CAD-CBD-CGD-O1D
20	B	851	LHG	O7-C5-C6-O8
23	B	850	DGD	C6A-C7A-C8A-C9A
18	A	831	CLA	C15-C16-C17-C18
21	B	801	BCR	C14-C15-C16-C17
18	A	805	CLA	O1A-CGA-O2A-C1
18	A	818	CLA	C6-C7-C8-C9
18	A	827	CLA	C14-C13-C15-C16
18	A	829	CLA	C6-C7-C8-C9
18	A	839	CLA	C6-C7-C8-C9
18	A	843	CLA	C6-C7-C8-C9
18	B	806	CLA	C14-C13-C15-C16
18	B	807	CLA	C14-C13-C15-C16
18	3	602	CLA	C6-C7-C8-C9
21	B	848	BCR	C6-C7-C8-C9
20	A	846	LHG	C11-C12-C13-C14
18	B	841	CLA	C3-C5-C6-C7
21	F	302	BCR	C15-C16-C17-C18
20	5	622	LHG	C12-C13-C14-C15
18	A	806	CLA	C16-C17-C18-C20
21	5	621	BCR	C7-C8-C9-C10
26	6	617	LUT	C20-C13-C14-C15
18	A	829	CLA	C16-C17-C18-C20
18	B	831	CLA	C1-C2-C3-C4
18	6	604	CLA	C1-C2-C3-C4
18	B	833	CLA	O1D-CGD-O2D-CED
23	B	850	DGD	C4D-C5D-C6D-O5D
18	A	829	CLA	CAA-CBA-CGA-O2A
20	2	622	LHG	O6-C4-C5-C6
18	A	802	CLA	C2A-CAA-CBA-CGA
18	A	841	CLA	C2A-CAA-CBA-CGA
18	K	206	CLA	C2A-CAA-CBA-CGA
18	5	613	CLA	C2A-CAA-CBA-CGA
18	A	805	CLA	C2-C1-O2A-CGA
18	B	803	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
18	B	826	CLA	C2-C1-O2A-CGA
20	6	620	LHG	C2-C3-O3-P
20	2	622	LHG	O6-C4-C5-O7
20	5	622	LHG	O6-C4-C5-O7
21	B	801	BCR	C23-C24-C25-C30
21	F	302	BCR	C23-C24-C25-C26
21	F	302	BCR	C23-C24-C25-C30
21	K	202	BCR	C23-C24-C25-C30
21	L	301	BCR	C23-C24-C25-C30
18	A	826	CLA	CAA-CBA-CGA-O2A
18	3	602	CLA	C2A-CAA-CBA-CGA
20	A	846	LHG	C3-O3-P-O6
20	B	851	LHG	C4-O6-P-O3
20	2	622	LHG	C3-O3-P-O6
20	A	846	LHG	C25-C26-C27-C28
18	B	822	CLA	C6-C7-C8-C10
23	B	850	DGD	CCB-CDB-CEB-CFB
18	A	818	CLA	C11-C10-C8-C7
18	A	830	CLA	C11-C12-C13-C15
18	A	841	CLA	C11-C10-C8-C7
18	3	602	CLA	C11-C10-C8-C7
19	B	842	PQN	C16-C17-C18-C20
18	B	805	CLA	C11-C12-C13-C14
18	B	809	CLA	C14-C13-C15-C16
18	B	840	CLA	C6-C7-C8-C9
19	B	842	PQN	C21-C22-C23-C24
21	5	621	BCR	C9-C10-C11-C12
18	B	840	CLA	CAA-CBA-CGA-O1A
18	A	827	CLA	C16-C17-C18-C19
18	A	831	CLA	C4-C3-C5-C6
18	A	834	CLA	C2A-CAA-CBA-CGA
21	K	202	BCR	C13-C14-C15-C16
20	5	622	LHG	O6-C4-C5-C6
18	A	814	CLA	C3-C5-C6-C7
18	5	609	CLA	CAA-CBA-CGA-O2A
18	6	613	CLA	CAA-CBA-CGA-O1A
18	6	613	CLA	CAA-CBA-CGA-O2A
18	B	832	CLA	CAA-CBA-CGA-O1A
18	A	827	CLA	C2-C1-O2A-CGA
18	B	805	CLA	C2A-CAA-CBA-CGA
18	5	602	CLA	C2A-CAA-CBA-CGA
20	A	847	LHG	O10-C23-C24-C25

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Mol	Chain	Res	Type	Atoms
25	2	606	CHL	C2A-CAA-CBA-CGA
20	5	622	LHG	C27-C28-C29-C30
18	A	814	CLA	C3A-C2A-CAA-CBA
18	B	831	CLA	C3A-C2A-CAA-CBA
18	B	841	CLA	C3A-C2A-CAA-CBA
25	6	601	CHL	CAA-CBA-CGA-O2A
18	A	854	CLA	C11-C12-C13-C14
18	B	807	CLA	C11-C10-C8-C9
18	B	828	CLA	C14-C13-C15-C16
19	B	842	PQN	C26-C27-C28-C30
18	B	832	CLA	CAA-CBA-CGA-O2A
21	A	848	BCR	C20-C21-C22-C37
21	A	852	BCR	C11-C10-C9-C34
18	B	833	CLA	CAA-CBA-CGA-O2A
18	K	203	CLA	CAA-CBA-CGA-O1A
18	A	829	CLA	C16-C17-C18-C19
20	6	620	LHG	O2-C2-C3-O3
18	B	822	CLA	O1D-CGD-O2D-CED
21	A	856	BCR	C7-C8-C9-C34
25	2	616	CHL	CAA-CBA-CGA-O1A
20	A	846	LHG	C31-C32-C33-C34
21	L	301	BCR	C21-C22-C23-C24
18	A	840	CLA	CAA-CBA-CGA-O1A
23	B	850	DGD	O6D-C5D-C6D-O5D
18	A	803	CLA	C1A-C2A-CAA-CBA
18	A	812	CLA	C1A-C2A-CAA-CBA
18	A	830	CLA	C1A-C2A-CAA-CBA
18	B	831	CLA	C1A-C2A-CAA-CBA
18	5	614	CLA	C1A-C2A-CAA-CBA
18	A	854	CLA	C6-C7-C8-C10
18	B	826	CLA	C11-C10-C8-C7
18	B	836	CLA	C11-C10-C8-C7
18	A	839	CLA	C15-C16-C17-C18
25	6	601	CHL	CAA-CBA-CGA-O1A
25	2	607	CHL	C3C-C2C-CMC-OMC
25	5	615	CHL	C3C-C2C-CMC-OMC
18	A	833	CLA	CAA-CBA-CGA-O1A
18	B	833	CLA	CAA-CBA-CGA-O1A
18	B	834	CLA	CAA-CBA-CGA-O1A
18	B	834	CLA	CAA-CBA-CGA-O2A
18	5	603	CLA	CAA-CBA-CGA-O1A
18	A	814	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
18	A	826	CLA	C2A-CAA-CBA-CGA
18	A	839	CLA	C2A-CAA-CBA-CGA
18	L	302	CLA	C2A-CAA-CBA-CGA
18	2	604	CLA	C2A-CAA-CBA-CGA
18	B	831	CLA	O2A-C1-C2-C3
25	5	608	CHL	CBA-CGA-O2A-C1
18	A	831	CLA	C13-C15-C16-C17
18	5	612	CLA	CAA-CBA-CGA-O1A
25	2	601	CHL	CAA-CBA-CGA-O2A
18	3	613	CLA	C5-C6-C7-C8
18	B	841	CLA	CBD-CGD-O2D-CED
25	2	601	CHL	CAA-CBA-CGA-O1A
18	B	806	CLA	C5-C6-C7-C8
21	A	852	BCR	C11-C10-C9-C8
18	A	833	CLA	CAA-CBA-CGA-O2A
18	B	835	CLA	CAA-CBA-CGA-O1A
25	2	616	CHL	CAA-CBA-CGA-O2A
24	J	104	LMG	O1-C7-C8-O7
18	A	801	CLA	C5-C6-C7-C8
21	A	856	BCR	C19-C20-C21-C22
26	6	617	LUT	C9-C10-C11-C12
27	6	619	XAT	C29-C30-C31-C32
18	2	603	CLA	CAA-CBA-CGA-O1A
18	A	834	CLA	C10-C11-C12-C13
18	G	204	CLA	CAA-CBA-CGA-O2A
18	B	841	CLA	O1D-CGD-O2D-CED
18	A	804	CLA	C2-C1-O2A-CGA
18	A	825	CLA	C2-C1-O2A-CGA
18	6	603	CLA	C2-C1-O2A-CGA
21	B	843	BCR	C18-C19-C20-C21
26	5	619	LUT	C10-C11-C12-C13
18	A	840	CLA	CAA-CBA-CGA-O2A
18	5	609	CLA	CAA-CBA-CGA-O1A
18	5	612	CLA	CAA-CBA-CGA-O2A
18	A	839	CLA	C11-C12-C13-C14
25	5	608	CHL	O1A-CGA-O2A-C1
20	A	846	LHG	C17-C18-C19-C20
18	K	203	CLA	CAA-CBA-CGA-O2A
18	A	801	CLA	CAA-CBA-CGA-O2A
23	B	850	DGD	C8A-C9A-CAA-CBA
18	A	819	CLA	C2A-CAA-CBA-CGA
18	B	827	CLA	C2A-CAA-CBA-CGA

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Mol	Chain	Res	Type	Atoms
21	A	849	BCR	C23-C24-C25-C30
21	A	850	BCR	C23-C24-C25-C30
21	F	302	BCR	C1-C6-C7-C8
21	I	101	BCR	C1-C6-C7-C8
21	J	102	BCR	C23-C24-C25-C30
21	3	620	BCR	C1-C6-C7-C8
21	3	622	BCR	C1-C6-C7-C8
21	3	622	BCR	C5-C6-C7-C8
18	A	842	CLA	CAA-CBA-CGA-O2A
18	2	603	CLA	CAA-CBA-CGA-O2A
18	B	813	CLA	C8-C10-C11-C12
18	L	304	CLA	C1A-C2A-CAA-CBA
18	A	810	CLA	CAA-CBA-CGA-O2A
18	B	835	CLA	CAA-CBA-CGA-O2A
18	K	206	CLA	CAA-CBA-CGA-O2A
18	6	612	CLA	CAA-CBA-CGA-O2A
18	5	603	CLA	CAA-CBA-CGA-O2A
18	K	206	CLA	CAA-CBA-CGA-O1A
18	A	828	CLA	C2A-CAA-CBA-CGA
18	A	841	CLA	C3-C5-C6-C7
18	A	801	CLA	C6-C7-C8-C10
18	A	803	CLA	C12-C13-C15-C16
18	A	823	CLA	CAA-CBA-CGA-O2A
20	A	847	LHG	O1-C1-C2-O2
20	2	622	LHG	O1-C1-C2-O2
21	2	621	BCR	C19-C20-C21-C22
24	2	618	LMG	C4-C5-C6-O5
23	B	850	DGD	CEB-CFB-CGB-CHB
18	B	813	CLA	CAA-CBA-CGA-O2A
18	A	810	CLA	CAA-CBA-CGA-O1A
18	G	204	CLA	CAA-CBA-CGA-O1A
18	2	613	CLA	CAA-CBA-CGA-O2A
18	6	612	CLA	CAA-CBA-CGA-O1A
18	5	602	CLA	CAA-CBA-CGA-O2A
21	B	845	BCR	C11-C10-C9-C34
21	L	301	BCR	C11-C10-C9-C34
20	5	622	LHG	O7-C7-C8-C9
18	A	818	CLA	C11-C10-C8-C9
18	B	805	CLA	C14-C13-C15-C16
18	A	803	CLA	C3A-C2A-CAA-CBA
18	A	830	CLA	C3A-C2A-CAA-CBA
20	A	847	LHG	O10-C23-O8-C6

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Mol	Chain	Res	Type	Atoms
18	A	823	CLA	CAA-CBA-CGA-O1A
18	A	820	CLA	CAD-CBD-CGD-O2D
18	A	827	CLA	CAD-CBD-CGD-O2D
18	A	833	CLA	CAD-CBD-CGD-O2D
18	B	811	CLA	CAD-CBD-CGD-O2D
18	B	812	CLA	CAD-CBD-CGD-O2D
18	L	304	CLA	CAD-CBD-CGD-O2D
18	2	602	CLA	CAD-CBD-CGD-O2D
18	2	603	CLA	CAD-CBD-CGD-O2D
18	3	609	CLA	CAD-CBD-CGD-O2D
18	3	610	CLA	CAD-CBD-CGD-O2D
18	5	611	CLA	CAD-CBD-CGD-O2D
18	F	303	CLA	CAA-CBA-CGA-O2A
18	6	602	CLA	CAA-CBA-CGA-O2A
18	6	608	CLA	CAA-CBA-CGA-O2A
18	2	609	CLA	CAA-CBA-CGA-O2A
18	A	842	CLA	CAA-CBA-CGA-O1A
20	A	846	LHG	O8-C23-C24-C25
21	J	103	BCR	C7-C8-C9-C10
27	5	620	XAT	O24-C26-C27-C28
25	5	608	CHL	CAA-CBA-CGA-O2A
18	6	608	CLA	CAA-CBA-CGA-O1A
20	A	846	LHG	C16-C17-C18-C19
18	A	806	CLA	O2A-C1-C2-C3
18	A	801	CLA	C16-C17-C18-C20
20	2	622	LHG	O9-C7-O7-C5
18	A	809	CLA	CHA-CBD-CGD-O1D
18	A	809	CLA	CHA-CBD-CGD-O2D
18	A	815	CLA	CHA-CBD-CGD-O2D
18	A	835	CLA	CHA-CBD-CGD-O1D
18	A	840	CLA	CHA-CBD-CGD-O2D
18	B	803	CLA	CHA-CBD-CGD-O1D
18	B	803	CLA	CHA-CBD-CGD-O2D
18	B	807	CLA	CHA-CBD-CGD-O2D
18	B	808	CLA	CHA-CBD-CGD-O1D
18	B	808	CLA	CHA-CBD-CGD-O2D
18	B	824	CLA	CHA-CBD-CGD-O1D
18	B	824	CLA	CHA-CBD-CGD-O2D
18	B	828	CLA	CHA-CBD-CGD-O2D
18	B	833	CLA	CHA-CBD-CGD-O1D
18	B	833	CLA	CHA-CBD-CGD-O2D
18	B	836	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
18	B	841	CLA	CHA-CBD-CGD-O1D
18	F	305	CLA	CHA-CBD-CGD-O1D
18	F	305	CLA	CHA-CBD-CGD-O2D
18	G	203	CLA	CHA-CBD-CGD-O1D
18	G	203	CLA	CHA-CBD-CGD-O2D
18	K	201	CLA	CHA-CBD-CGD-O1D
18	K	204	CLA	CHA-CBD-CGD-O1D
18	K	204	CLA	CHA-CBD-CGD-O2D
18	L	302	CLA	CHA-CBD-CGD-O1D
18	6	602	CLA	CHA-CBD-CGD-O1D
18	6	603	CLA	CHA-CBD-CGD-O1D
18	5	613	CLA	CHA-CBD-CGD-O1D
18	5	613	CLA	CHA-CBD-CGD-O2D
18	5	614	CLA	CHA-CBD-CGD-O2D
25	2	601	CHL	CHA-CBD-CGD-O1D
25	2	601	CHL	CHA-CBD-CGD-O2D
26	5	619	LUT	C29-C30-C31-C32
18	A	821	CLA	CAA-CBA-CGA-O2A
18	F	303	CLA	CAA-CBA-CGA-O1A
18	A	814	CLA	CAA-CBA-CGA-O2A
18	B	806	CLA	CAA-CBA-CGA-O2A
23	B	850	DGD	O2G-C2G-C3G-O3G
18	F	305	CLA	CAA-CBA-CGA-O1A
18	A	845	CLA	CAA-CBA-CGA-O2A
18	6	604	CLA	O1D-CGD-O2D-CED
20	2	622	LHG	C28-C29-C30-C31
18	A	839	CLA	C5-C6-C7-C8
18	B	806	CLA	CBA-CGA-O2A-C1
18	6	604	CLA	CBD-CGD-O2D-CED
20	A	847	LHG	C10-C11-C12-C13
18	B	806	CLA	C2-C3-C5-C6
18	B	828	CLA	C11-C10-C8-C9
18	K	204	CLA	C4C-C3C-CAC-CBC
18	2	613	CLA	CAA-CBA-CGA-O1A
18	5	602	CLA	CAA-CBA-CGA-O1A
18	B	813	CLA	CAA-CBA-CGA-O1A
18	B	806	CLA	O1A-CGA-O2A-C1
20	6	620	LHG	C8-C7-O7-C5
18	5	610	CLA	C2A-CAA-CBA-CGA
18	A	821	CLA	CAA-CBA-CGA-O1A
18	B	837	CLA	CBA-CGA-O2A-C1
18	G	201	CLA	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
18	6	602	CLA	CAA-CBA-CGA-O1A
25	2	606	CHL	CAA-CBA-CGA-O2A
18	2	609	CLA	CBA-CGA-O2A-C1
18	A	807	CLA	CHA-CBD-CGD-O2D
18	A	835	CLA	C1A-C2A-CAA-CBA
18	A	854	CLA	C1A-C2A-CAA-CBA
18	B	814	CLA	CHA-CBD-CGD-O2D
18	B	838	CLA	C1A-C2A-CAA-CBA
18	B	841	CLA	C1A-C2A-CAA-CBA
18	K	201	CLA	C1A-C2A-CAA-CBA
18	3	611	CLA	CHA-CBD-CGD-O2D
18	5	603	CLA	CHA-CBD-CGD-O2D
25	2	601	CHL	C1A-C2A-CAA-CBA
25	6	607	CHL	CHA-CBD-CGD-O2D
18	3	602	CLA	C11-C12-C13-C15
18	A	854	CLA	C13-C15-C16-C17
18	B	840	CLA	C2-C1-O2A-CGA
18	A	812	CLA	C5-C6-C7-C8
20	A	846	LHG	O10-C23-C24-C25
18	A	802	CLA	CAA-CBA-CGA-O2A
18	A	820	CLA	C2A-CAA-CBA-CGA
18	B	825	CLA	C16-C17-C18-C19
25	5	608	CHL	CAA-CBA-CGA-O1A
18	A	843	CLA	C10-C11-C12-C13
18	B	826	CLA	C13-C15-C16-C17
18	A	831	CLA	C2-C3-C5-C6
21	F	302	BCR	C6-C7-C8-C9
21	I	101	BCR	C6-C7-C8-C9
18	2	609	CLA	O1A-CGA-O2A-C1
20	A	846	LHG	C3-O3-P-O5
23	B	850	DGD	CEA-CFA-CGA-CHA
18	2	609	CLA	CAA-CBA-CGA-O1A
18	A	813	CLA	CAA-CBA-CGA-O2A
21	J	102	BCR	C16-C17-C18-C36
21	A	849	BCR	C23-C24-C25-C26
21	F	302	BCR	C5-C6-C7-C8
21	I	101	BCR	C5-C6-C7-C8
18	B	828	CLA	C5-C6-C7-C8
18	A	806	CLA	CAA-CBA-CGA-O2A
18	F	305	CLA	CAA-CBA-CGA-O2A
18	A	814	CLA	CAA-CBA-CGA-O1A
18	5	601	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
24	J	104	LMG	C10-C11-C12-C13
18	A	831	CLA	CAD-CBD-CGD-O1D
18	B	803	CLA	CAD-CBD-CGD-O1D
18	B	835	CLA	CAD-CBD-CGD-O1D
18	B	838	CLA	CAD-CBD-CGD-O1D
18	B	841	CLA	CAD-CBD-CGD-O1D
18	2	602	CLA	CAD-CBD-CGD-O1D
18	2	604	CLA	CAD-CBD-CGD-O1D
18	6	602	CLA	CAD-CBD-CGD-O1D
18	6	603	CLA	CAD-CBD-CGD-O1D
18	6	604	CLA	CAD-CBD-CGD-O1D
18	B	806	CLA	CAA-CBA-CGA-O1A
18	6	603	CLA	CAA-CBA-CGA-O2A
19	B	842	PQN	C19-C18-C20-C21
18	A	833	CLA	CBD-CGD-O2D-CED
18	A	824	CLA	CAA-CBA-CGA-O2A
18	B	816	CLA	CAA-CBA-CGA-O2A
18	G	201	CLA	CAA-CBA-CGA-O2A
25	2	606	CHL	CAA-CBA-CGA-O1A
18	A	813	CLA	C2A-CAA-CBA-CGA
18	A	806	CLA	C10-C11-C12-C13
18	5	601	CLA	CAA-CBA-CGA-O1A
18	A	845	CLA	CAA-CBA-CGA-O1A
18	B	806	CLA	C4-C3-C5-C6
18	A	807	CLA	CHA-CBD-CGD-O1D
18	A	843	CLA	C11-C12-C13-C15
18	B	828	CLA	C11-C10-C8-C7
18	G	204	CLA	CAD-CBD-CGD-O2D
18	6	614	CLA	CHA-CBD-CGD-O1D
18	3	614	CLA	CHA-CBD-CGD-O1D
18	3	617	CLA	CAD-CBD-CGD-O2D
18	5	603	CLA	CHA-CBD-CGD-O1D
25	6	607	CHL	CAD-CBD-CGD-O2D
25	3	608	CHL	CHA-CBD-CGD-O1D
18	A	824	CLA	CAA-CBA-CGA-O1A
23	B	850	DGD	O1B-C1B-C2B-C3B
18	3	602	CLA	CAA-CBA-CGA-O2A
20	A	847	LHG	O8-C23-C24-C25
21	J	102	BCR	C11-C12-C13-C14
18	A	802	CLA	CAA-CBA-CGA-O1A
18	B	816	CLA	CAA-CBA-CGA-O1A
18	A	835	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
18	6	603	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

171 monomers are involved in 423 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	A	834	CLA	2	0
18	B	812	CLA	3	0
18	5	602	CLA	5	0
18	B	823	CLA	3	0
18	5	611	CLA	2	0
18	5	612	CLA	1	0
18	3	613	CLA	3	0
18	6	609	CLA	2	0
25	2	616	CHL	1	0
19	A	844	PQN	1	0
18	A	813	CLA	1	0
18	A	832	CLA	2	0
18	B	840	CLA	4	0
18	3	604	CLA	1	0
21	B	847	BCR	2	0
18	B	803	CLA	2	0
18	B	819	CLA	3	0
18	3	612	CLA	1	0
18	B	821	CLA	2	0
18	3	611	CLA	3	0
18	A	837	CLA	2	0
18	B	838	CLA	2	0
18	B	828	CLA	5	0
18	B	817	CLA	4	0
18	2	613	CLA	1	0
18	3	606	CLA	3	0
18	A	826	CLA	5	0
21	I	101	BCR	2	0
18	A	819	CLA	3	0
18	B	822	CLA	1	0
21	3	620	BCR	5	0
25	3	608	CHL	1	0
18	B	807	CLA	1	0
21	L	301	BCR	1	0
18	B	829	CLA	1	0
18	A	833	CLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	K	204	CLA	2	0
18	B	836	CLA	1	0
18	B	830	CLA	1	0
18	A	824	CLA	2	0
18	K	203	CLA	1	0
21	B	848	BCR	4	0
18	3	602	CLA	1	0
21	A	851	BCR	1	0
18	2	614	CLA	2	0
20	A	847	LHG	2	0
21	B	843	BCR	4	0
18	2	610	CLA	4	0
26	6	617	LUT	3	0
18	B	832	CLA	1	0
21	3	622	BCR	3	0
18	5	601	CLA	2	0
25	2	606	CHL	9	0
20	A	846	LHG	1	0
18	B	805	CLA	2	0
21	A	849	BCR	2	0
18	A	835	CLA	4	0
21	A	848	BCR	3	0
18	A	841	CLA	2	0
20	2	622	LHG	3	0
18	B	837	CLA	2	0
26	5	619	LUT	2	0
18	A	842	CLA	2	0
18	A	814	CLA	6	0
18	A	801	CLA	1	0
18	5	614	CLA	2	0
25	2	607	CHL	5	0
26	2	619	LUT	2	0
21	F	302	BCR	4	0
18	A	816	CLA	1	0
18	3	609	CLA	7	0
18	F	301	CLA	2	0
18	5	610	CLA	3	0
25	6	601	CHL	2	0
18	A	854	CLA	6	0
18	B	816	CLA	2	0
18	A	831	CLA	2	0
18	B	827	CLA	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	L	304	CLA	1	0
21	5	621	BCR	2	0
20	5	622	LHG	5	0
26	3	618	LUT	1	0
18	A	809	CLA	6	0
18	A	802	CLA	2	0
18	A	827	CLA	5	0
18	A	838	CLA	2	0
18	B	809	CLA	4	0
18	B	825	CLA	3	0
21	A	852	BCR	4	0
21	G	205	BCR	3	0
25	2	601	CHL	1	0
22	C	101	SF4	7	0
21	2	621	BCR	5	0
18	6	603	CLA	2	0
21	K	207	BCR	2	0
18	B	833	CLA	5	0
18	5	613	CLA	3	0
18	B	815	CLA	3	0
18	A	818	CLA	1	0
25	5	607	CHL	14	0
18	B	835	CLA	3	0
18	B	841	CLA	2	0
18	L	303	CLA	2	0
18	A	808	CLA	2	0
18	A	839	CLA	3	0
18	B	818	CLA	3	0
18	A	812	CLA	7	0
18	J	101	CLA	1	0
18	2	604	CLA	3	0
21	B	801	BCR	2	0
18	G	204	CLA	2	0
21	J	102	BCR	1	0
18	A	823	CLA	1	0
18	B	826	CLA	3	0
18	B	808	CLA	1	0
18	B	814	CLA	1	0
18	3	614	CLA	2	0
18	3	603	CLA	2	0
21	K	202	BCR	3	0
27	5	620	XAT	31	0

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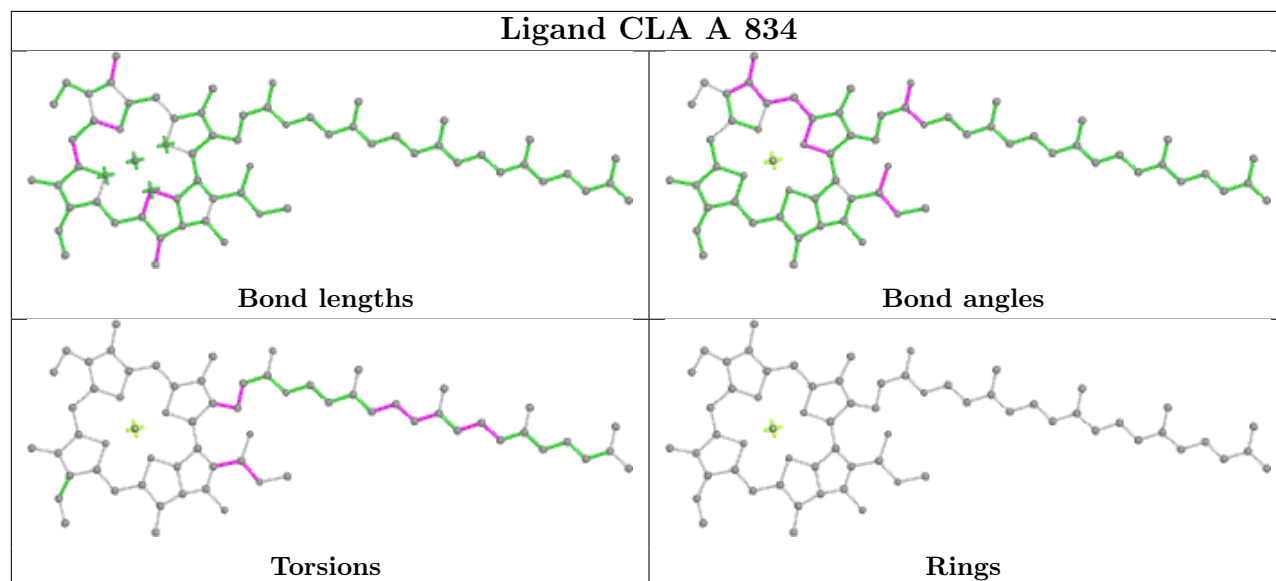
Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	A	829	CLA	9	0
18	A	805	CLA	3	0
18	A	811	CLA	3	0
25	5	608	CHL	4	0
18	A	806	CLA	5	0
18	F	305	CLA	1	0
18	A	803	CLA	2	0
18	5	604	CLA	1	0
21	B	844	BCR	1	0
18	B	834	CLA	1	0
18	F	304	CLA	2	0
27	2	620	XAT	24	0
18	B	811	CLA	1	0
23	B	850	DGD	4	0
18	B	806	CLA	2	0
21	J	103	BCR	5	0
18	A	820	CLA	5	0
18	A	840	CLA	1	0
18	B	831	CLA	2	0
18	A	821	CLA	2	0
18	3	617	CLA	1	0
18	G	201	CLA	2	0
18	A	828	CLA	1	0
18	A	817	CLA	1	0
18	B	802	CLA	3	0
21	B	845	BCR	2	0
27	6	619	XAT	13	0
19	B	842	PQN	5	0
24	J	104	LMG	1	0
21	L	305	BCR	1	0
18	A	822	CLA	1	0
21	B	846	BCR	1	0
21	A	856	BCR	4	0
18	L	302	CLA	4	0
22	C	102	SF4	4	0
20	6	620	LHG	1	0
20	B	851	LHG	1	0
18	6	613	CLA	1	0
18	A	843	CLA	6	0
18	5	609	CLA	1	0
18	K	201	CLA	1	0
18	A	810	CLA	2	0

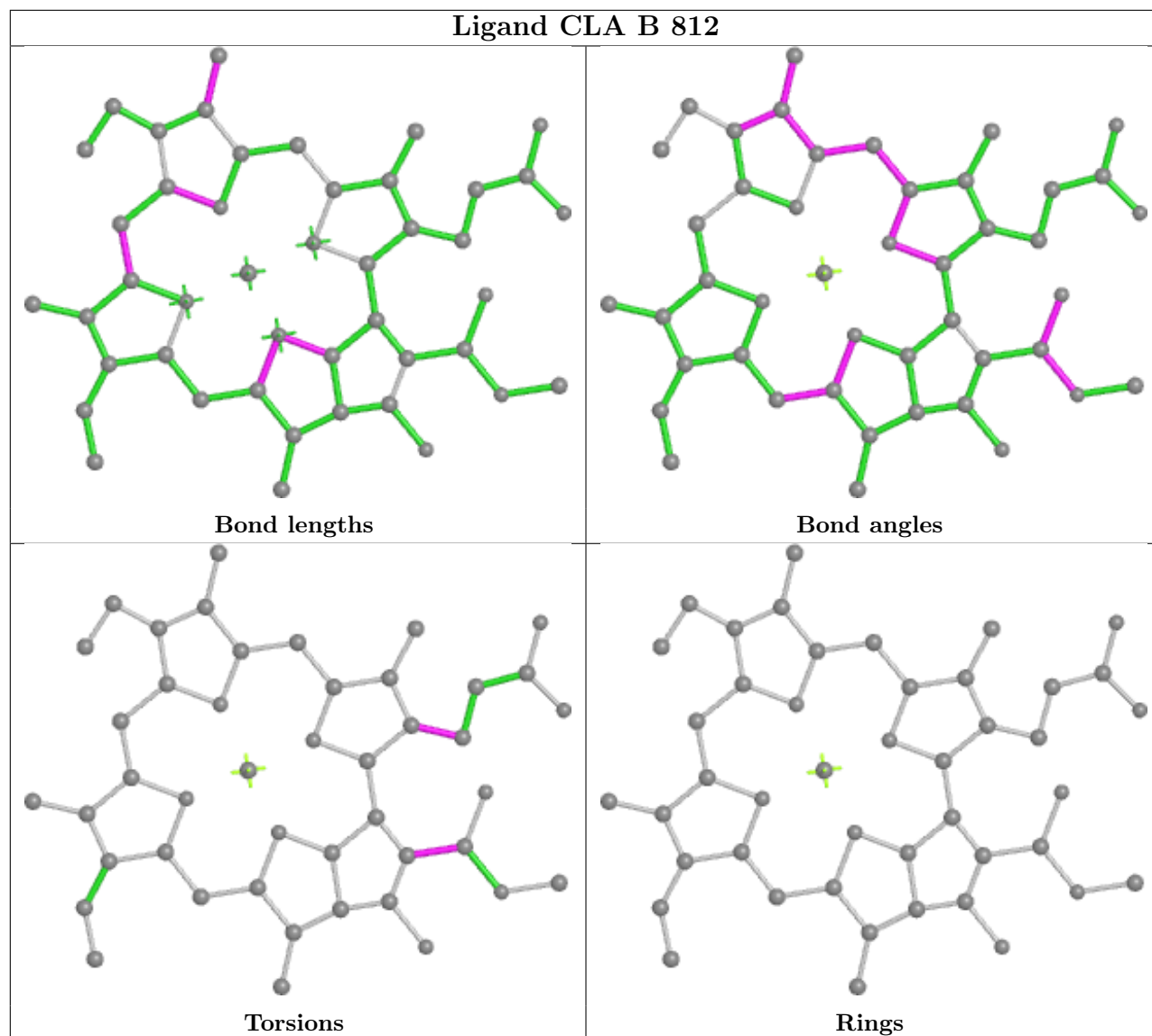
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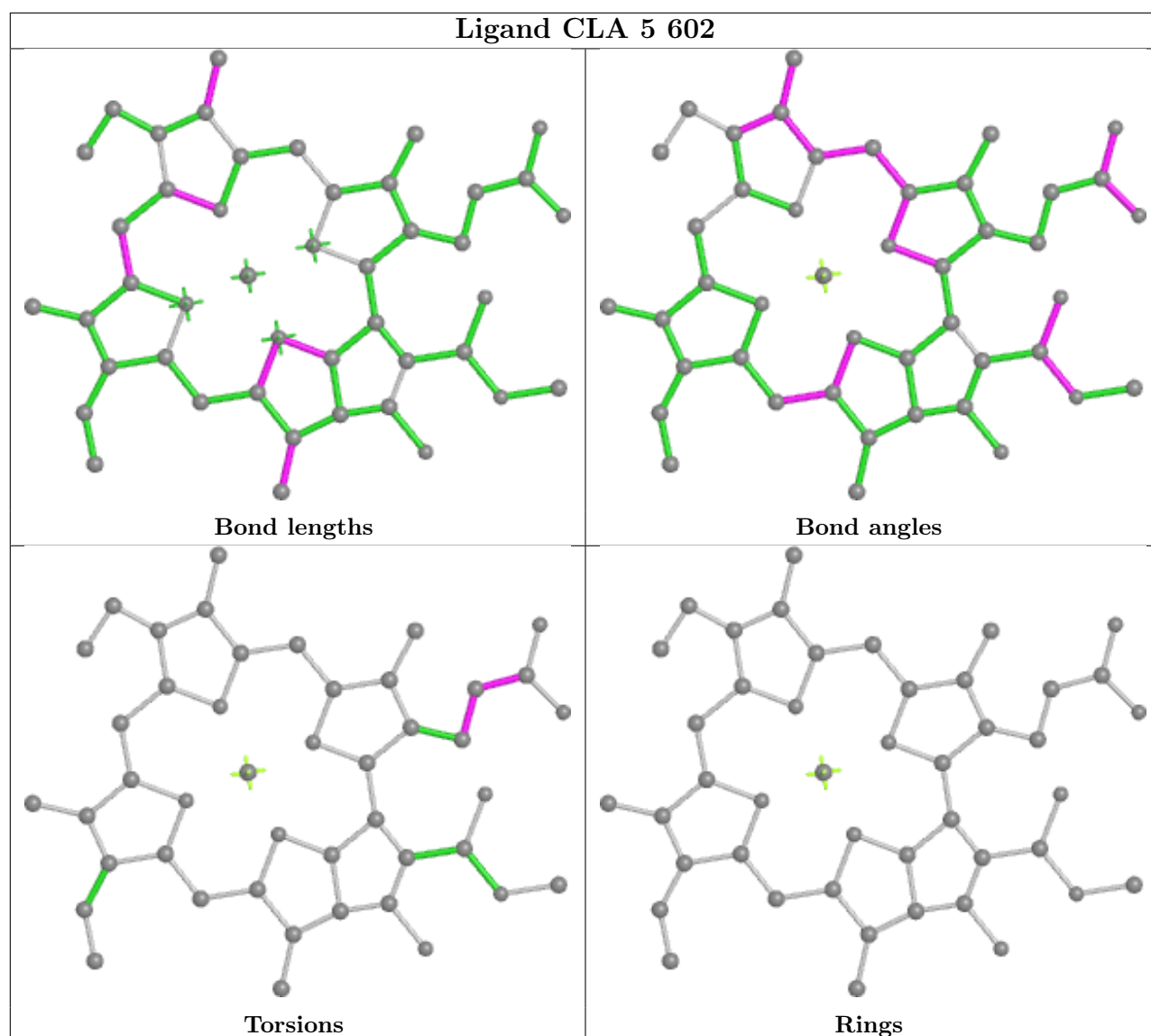
Mol	Chain	Res	Type	Clashes	Symm-Clashes
18	2	602	CLA	3	0
18	A	830	CLA	2	0
21	A	850	BCR	1	0
18	B	813	CLA	8	0
25	6	607	CHL	6	0
27	3	619	XAT	17	0
18	A	845	CLA	1	0
18	B	824	CLA	3	0
18	B	839	CLA	3	0

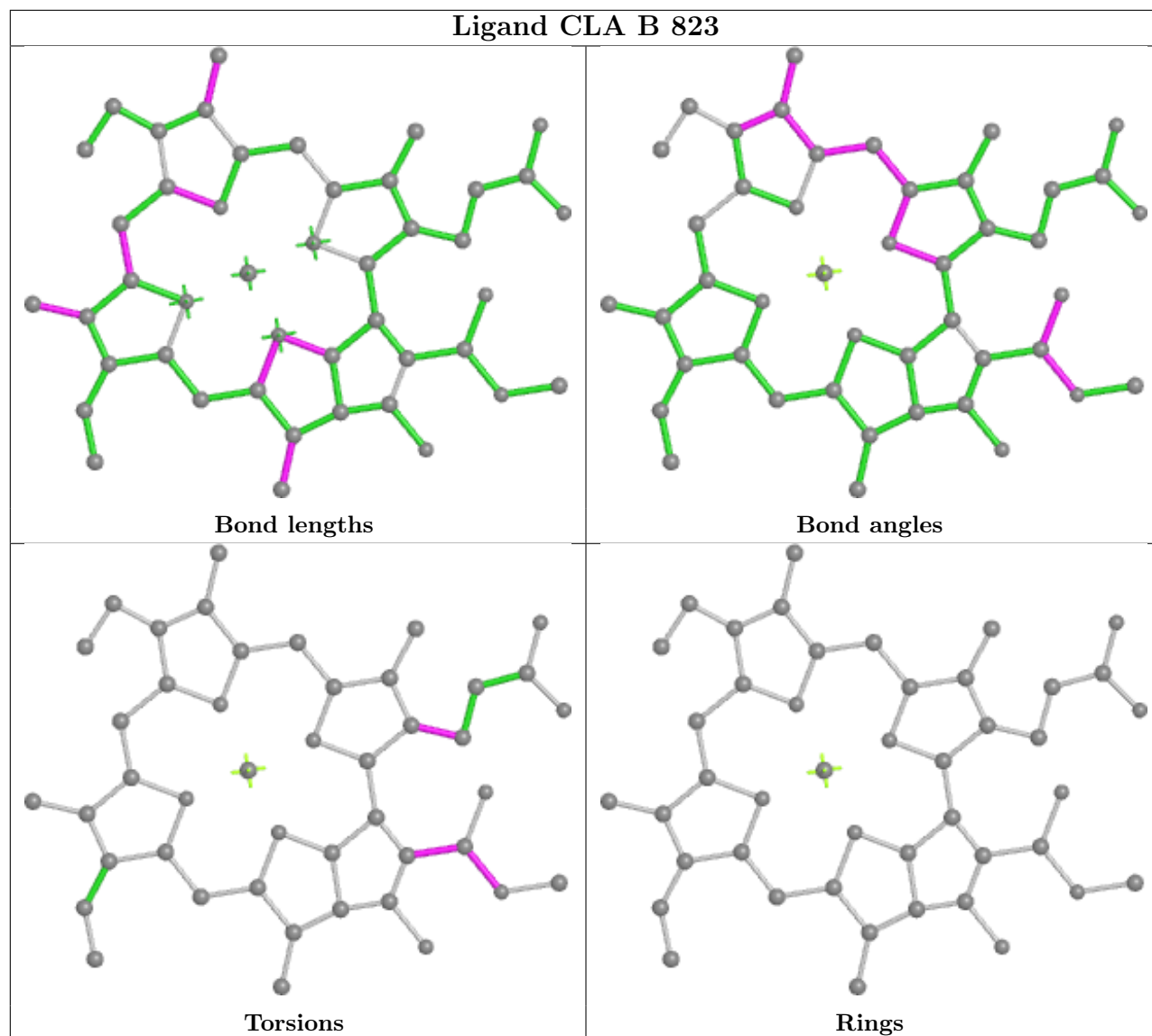
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

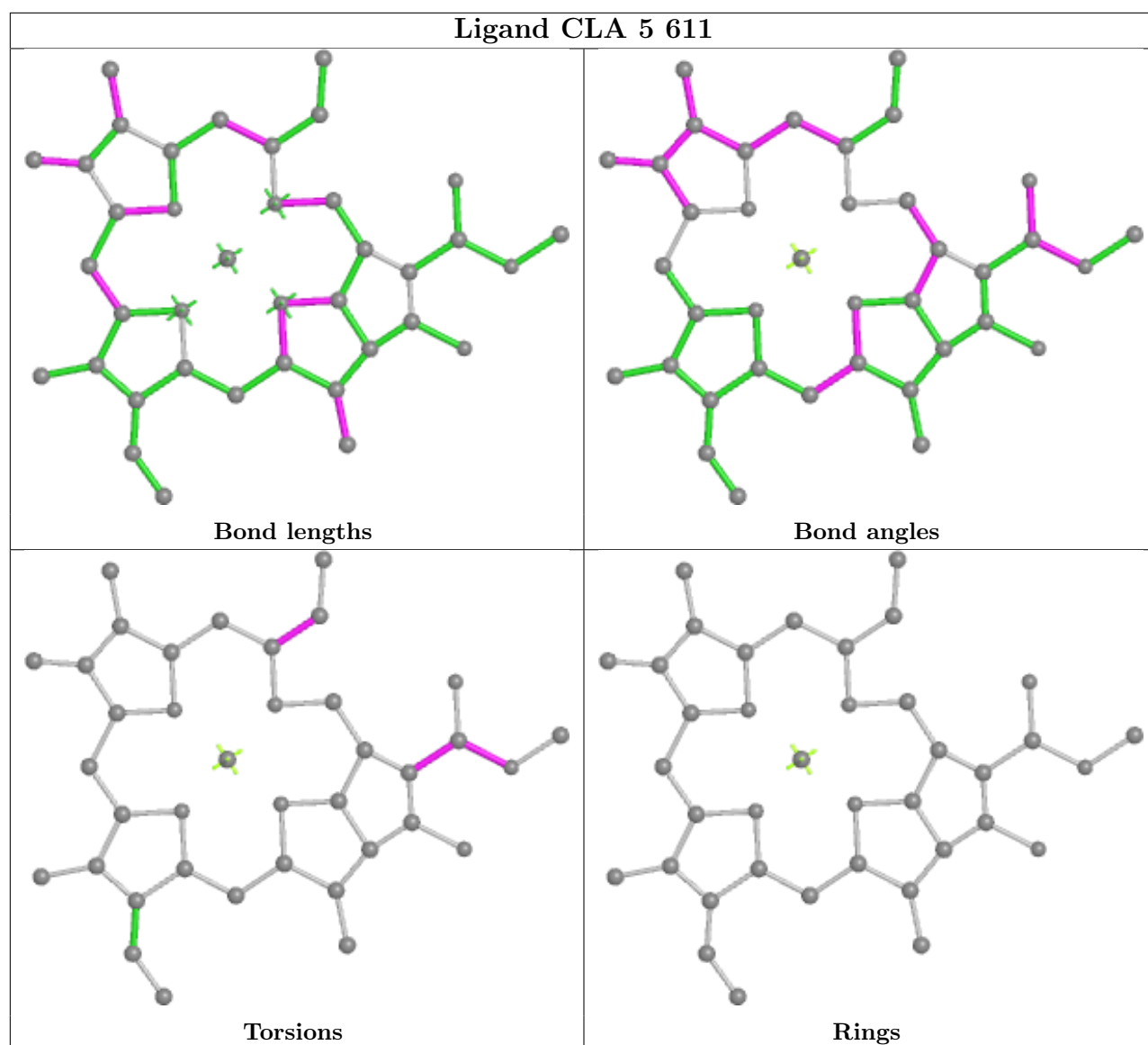


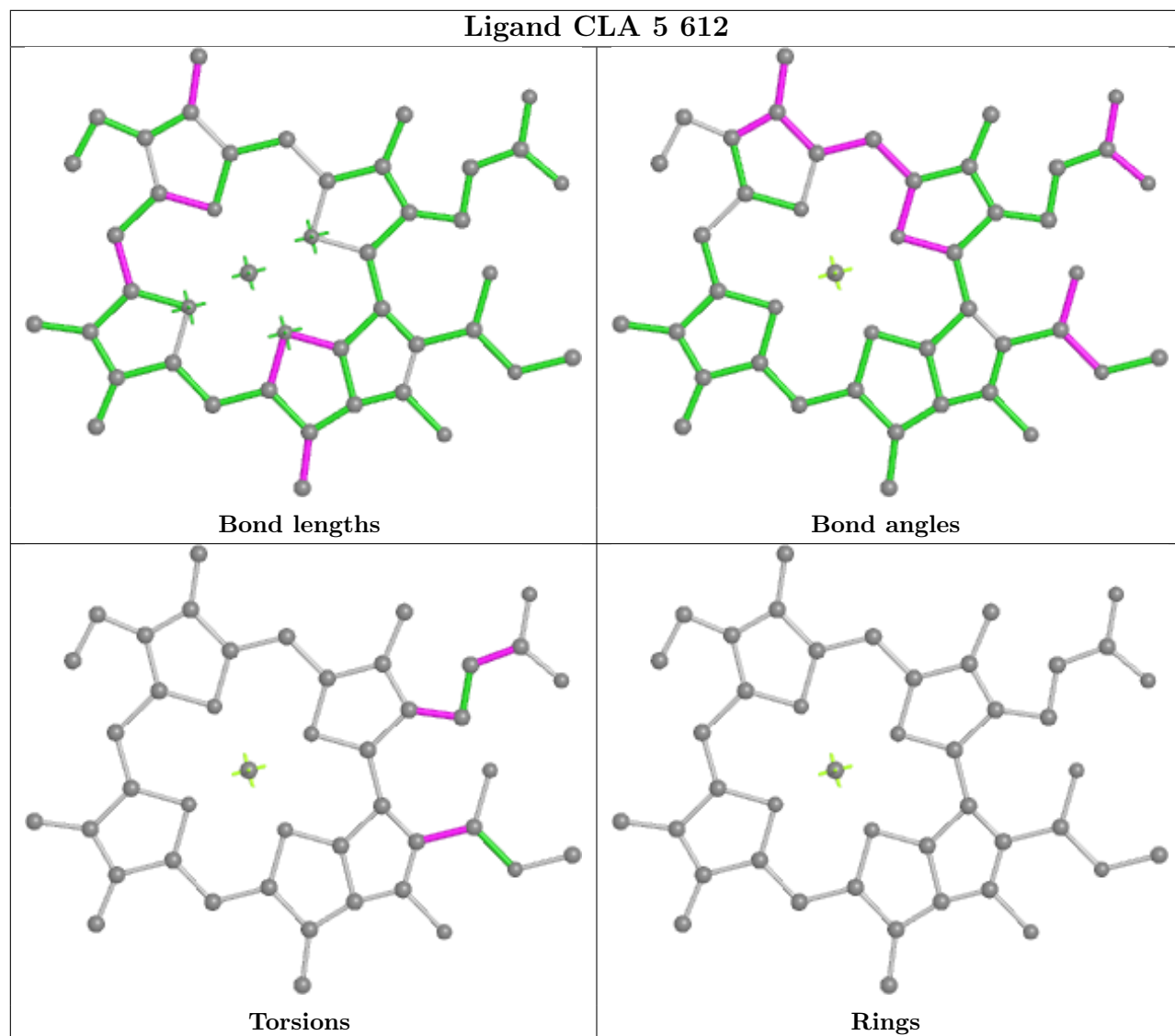


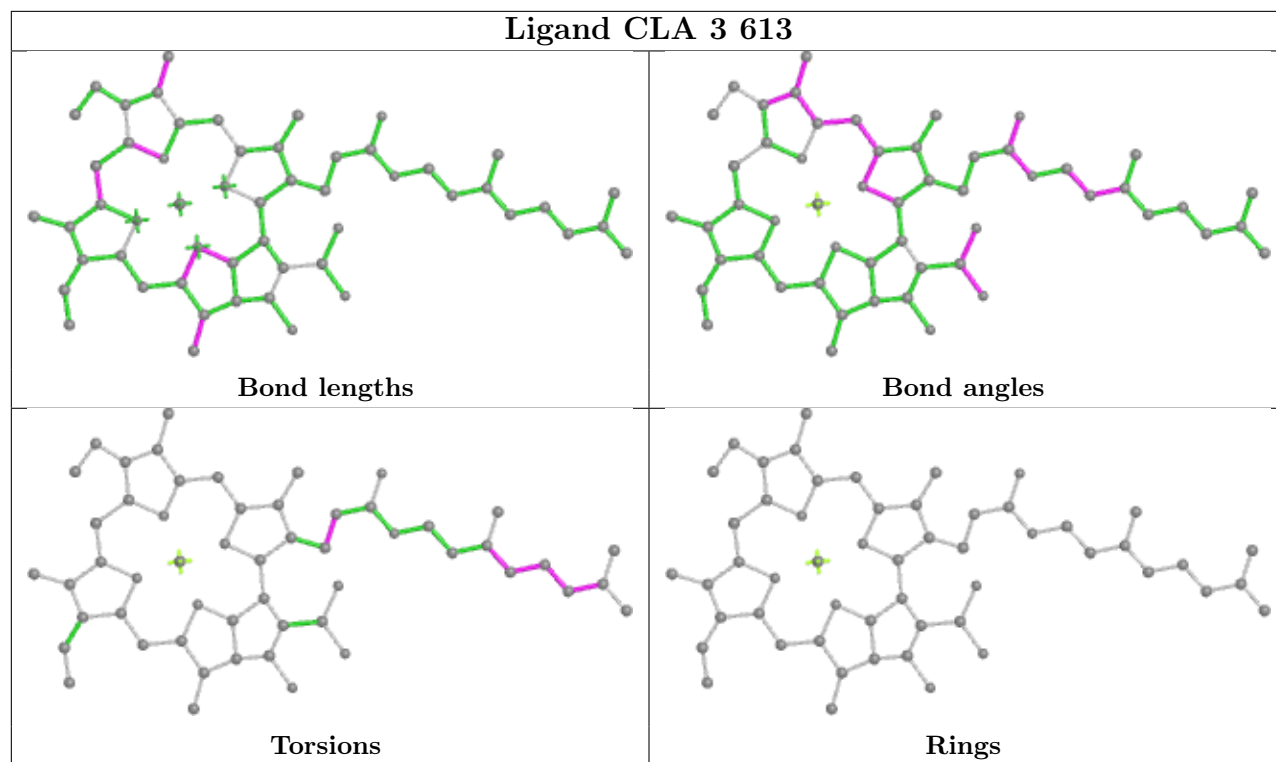


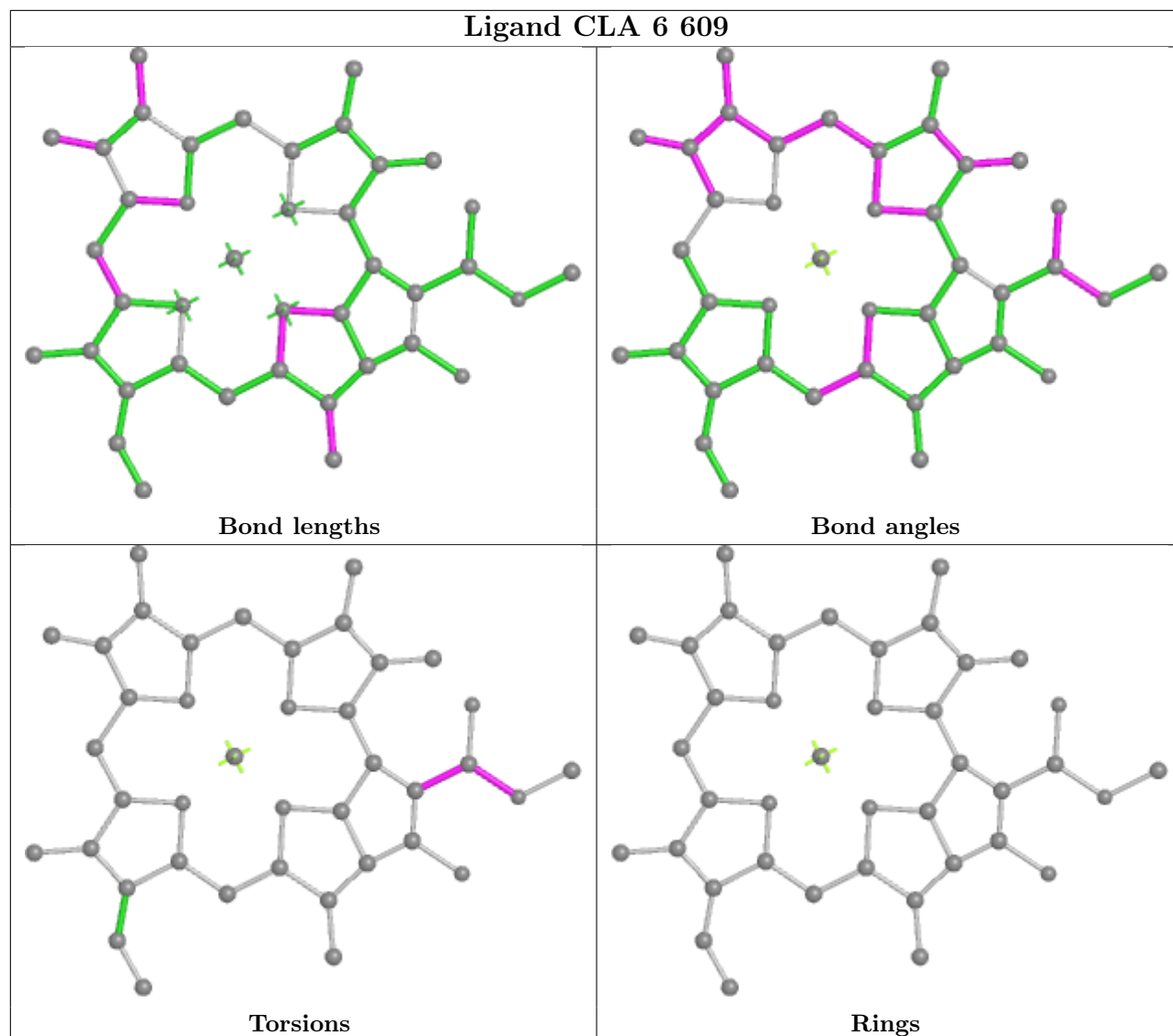


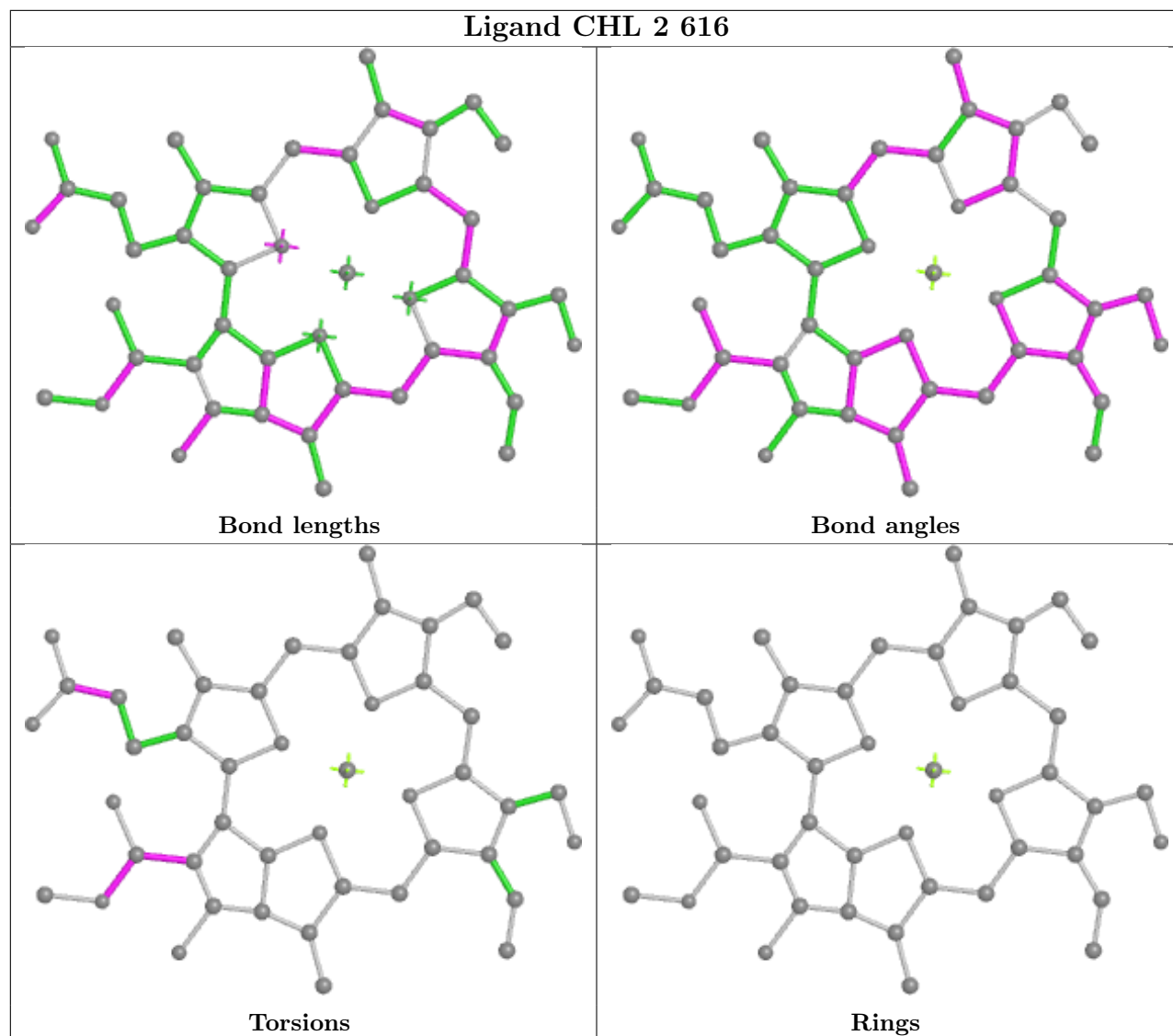


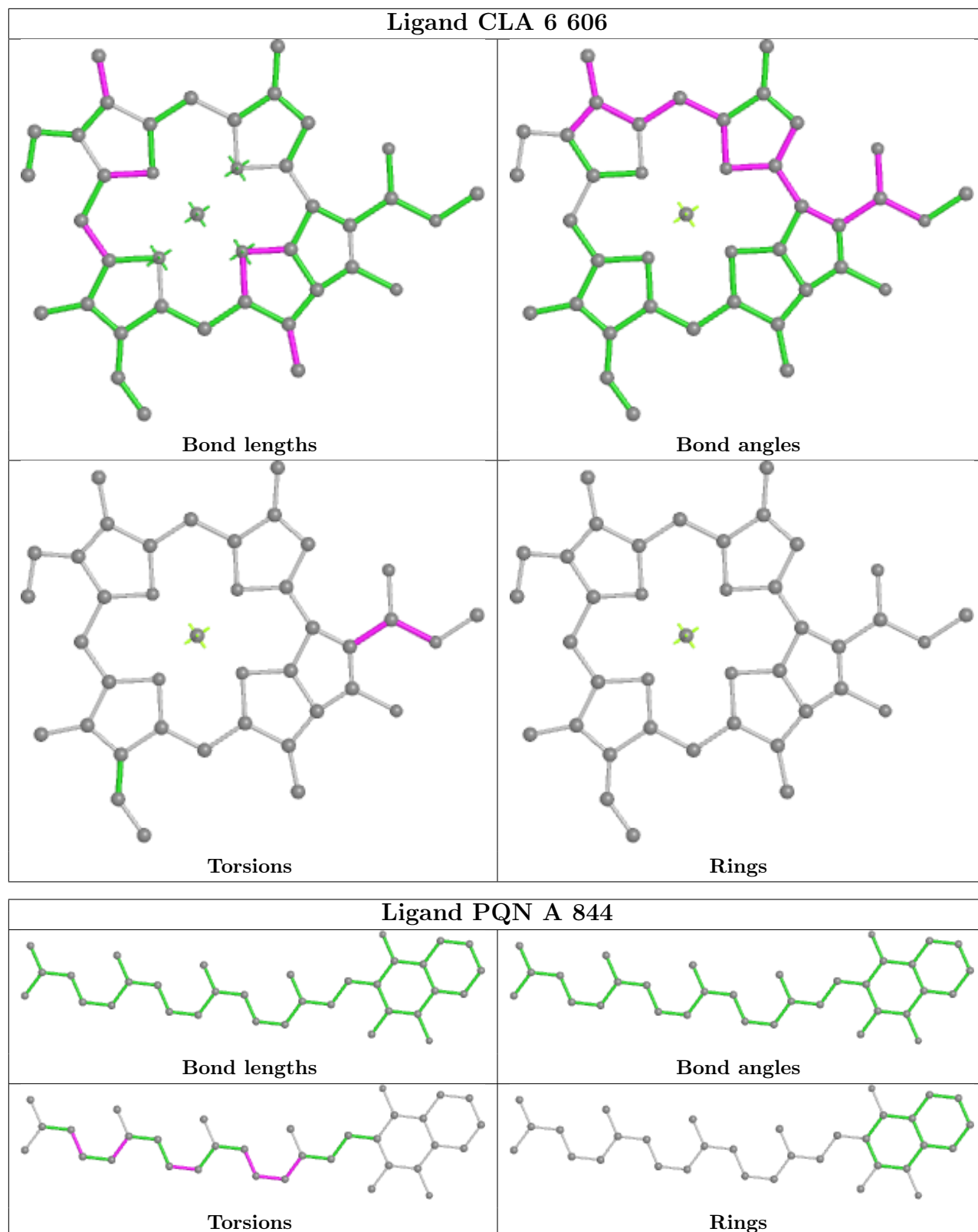




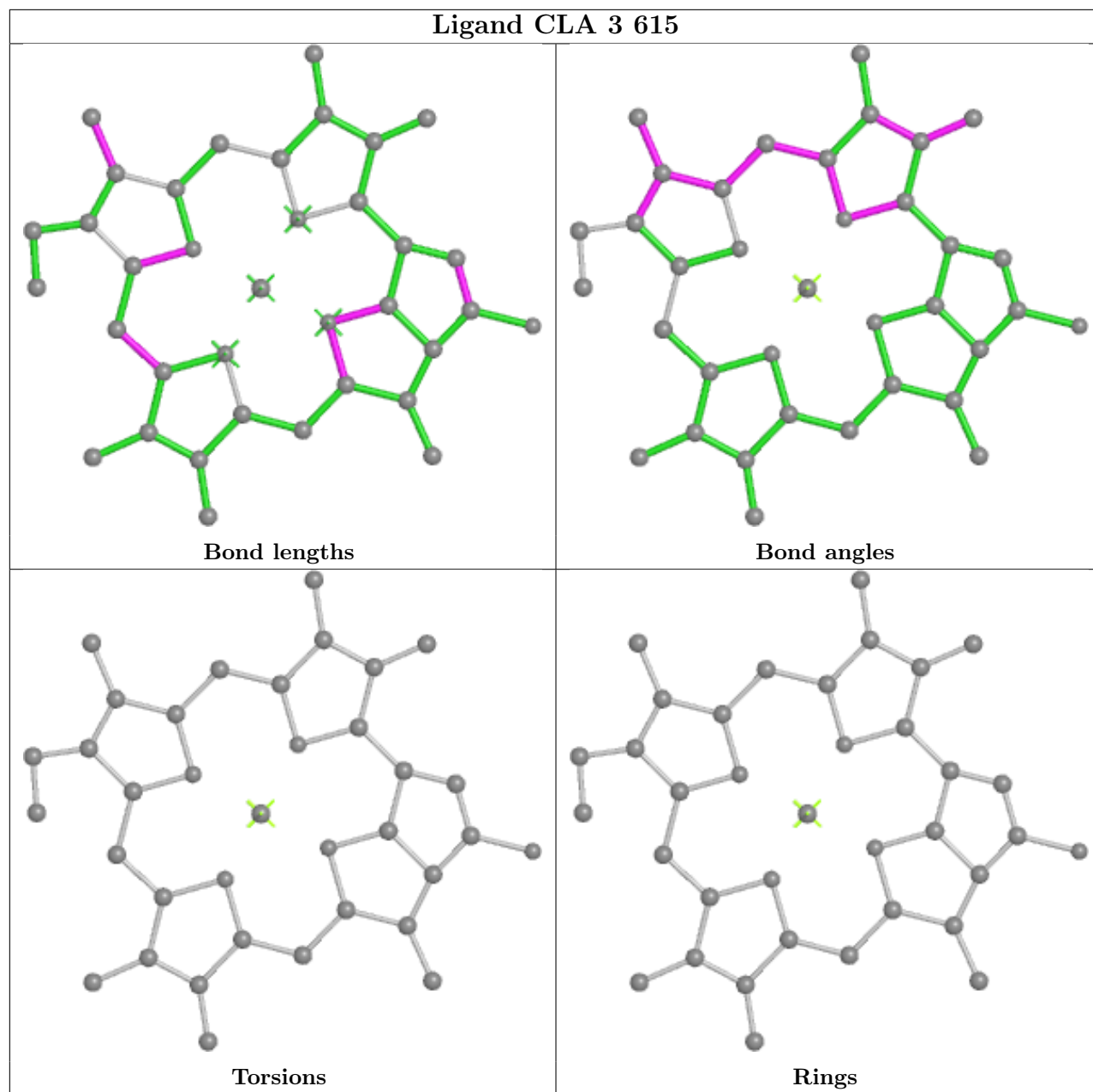


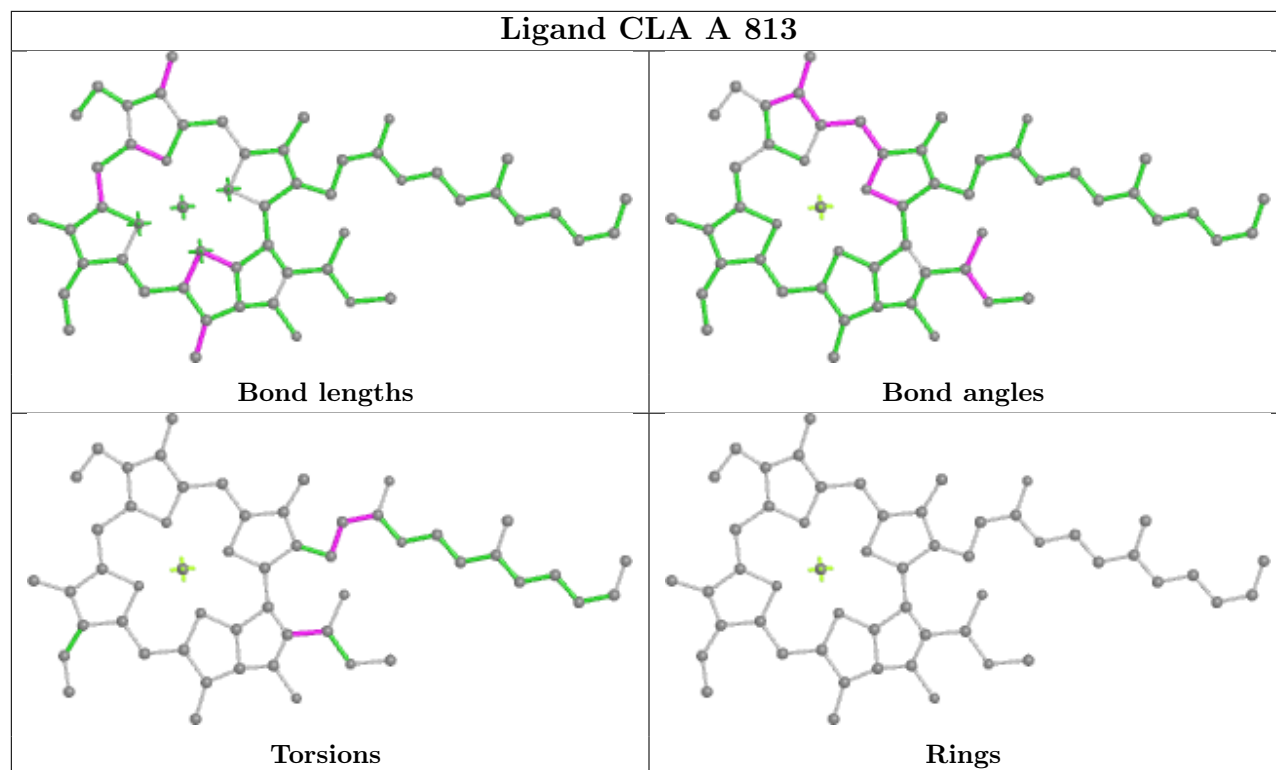


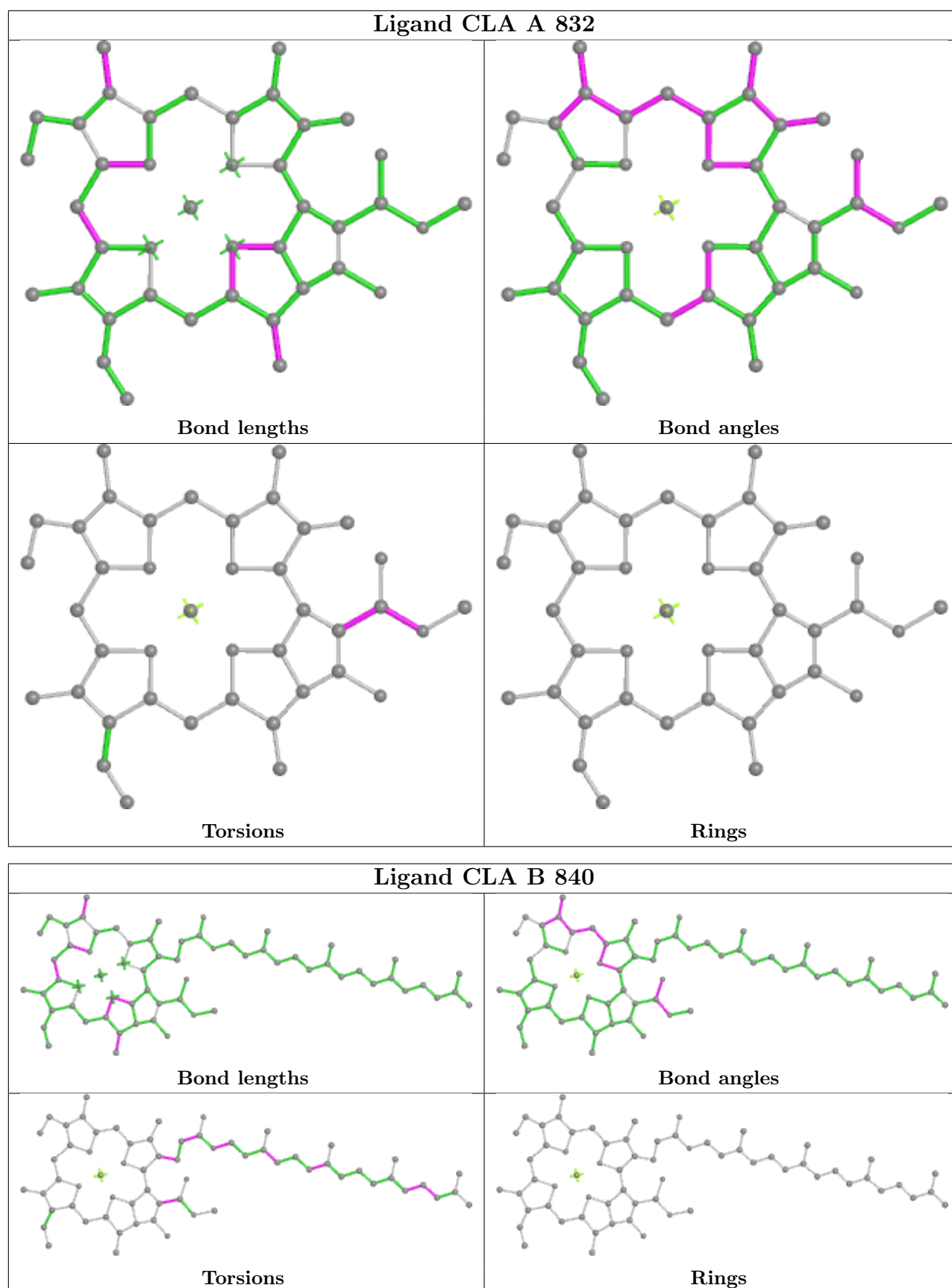


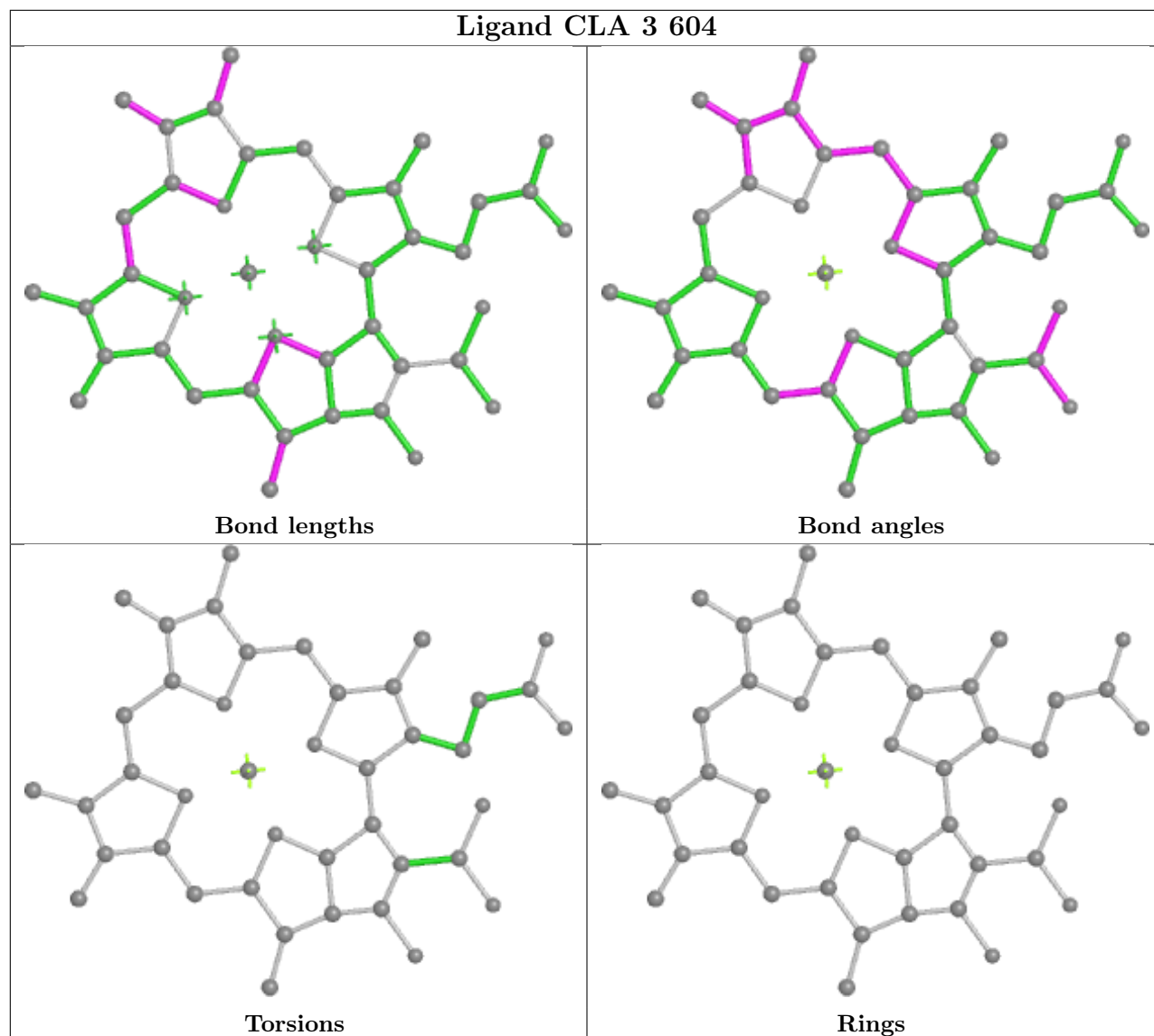


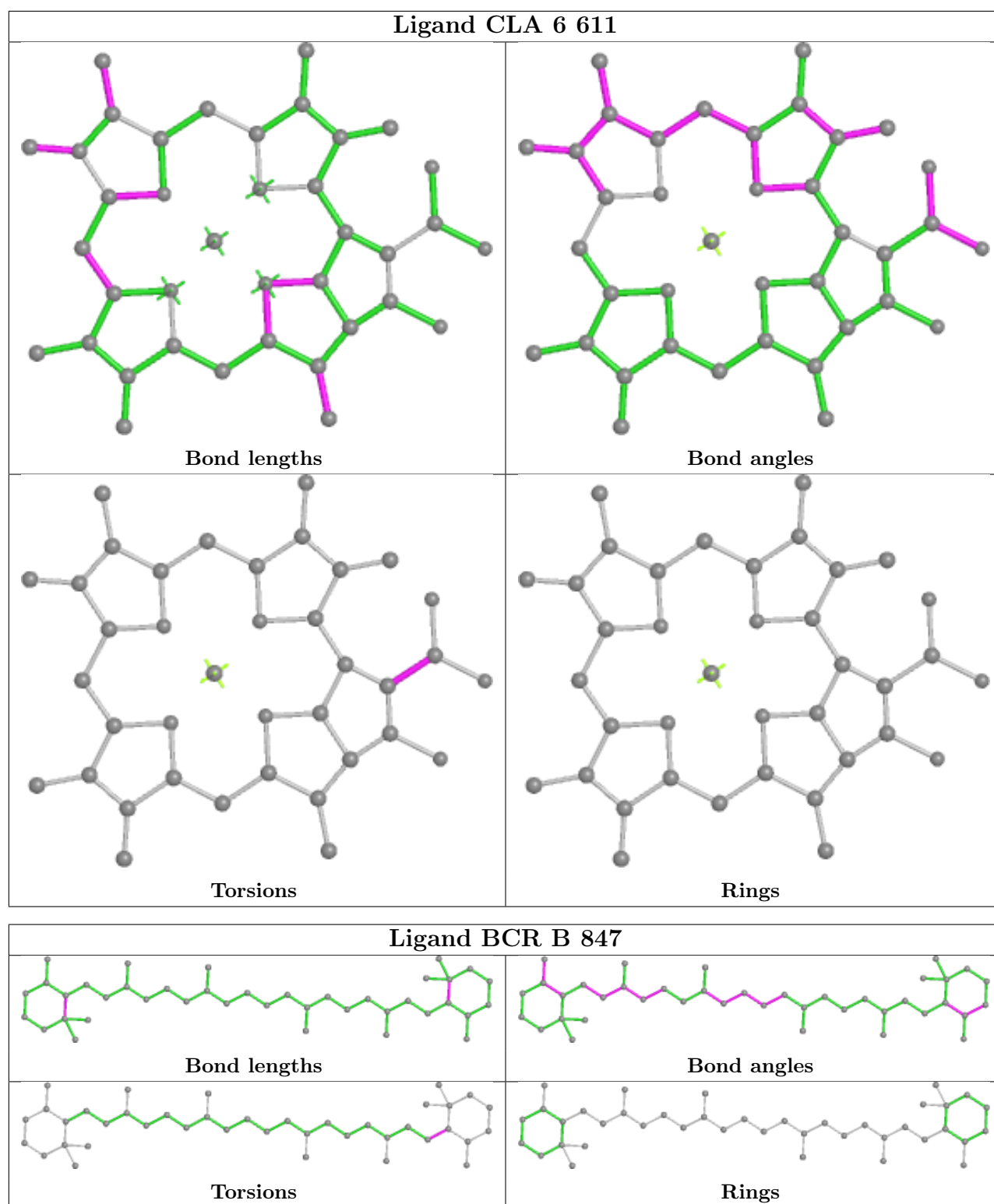


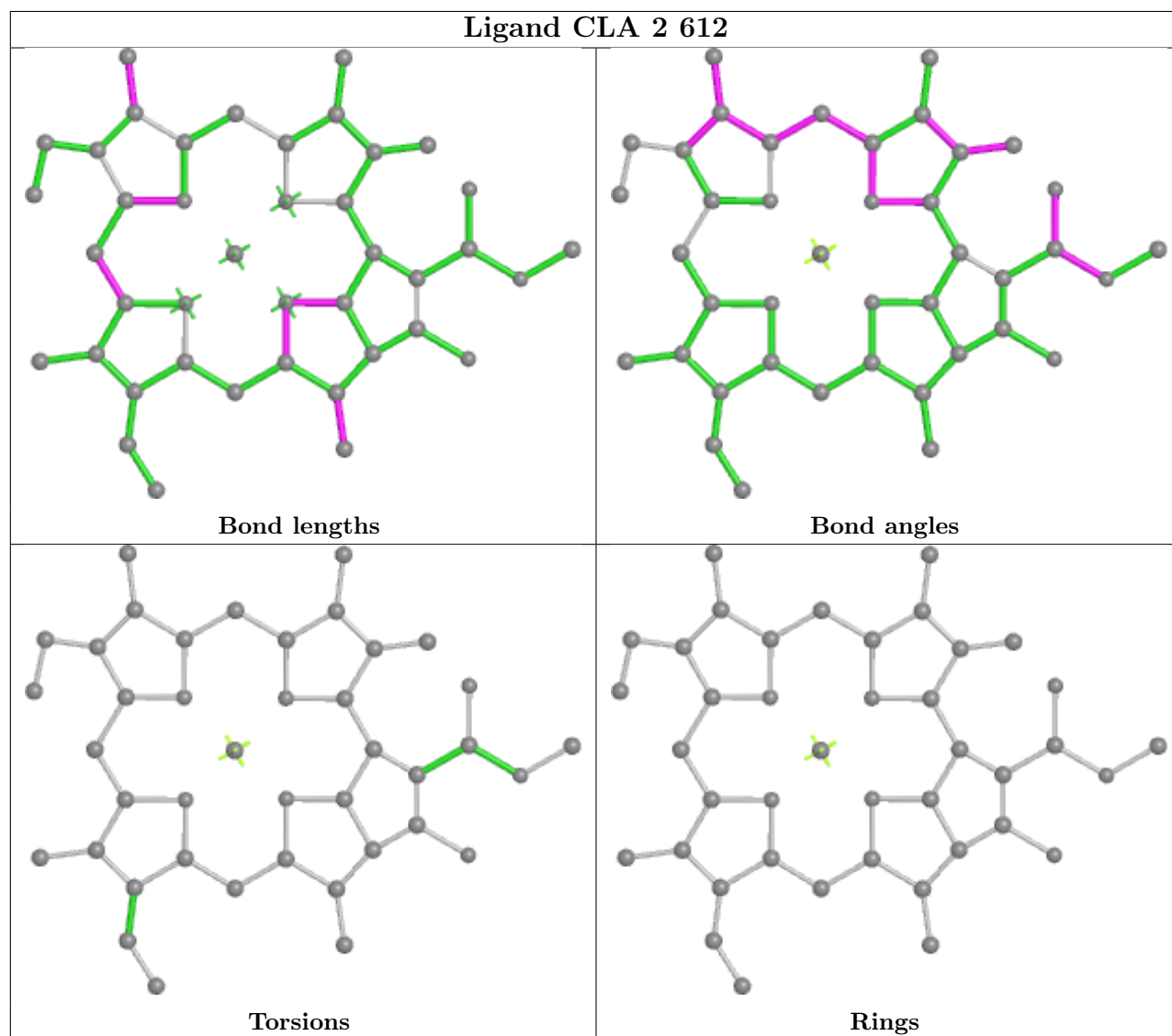
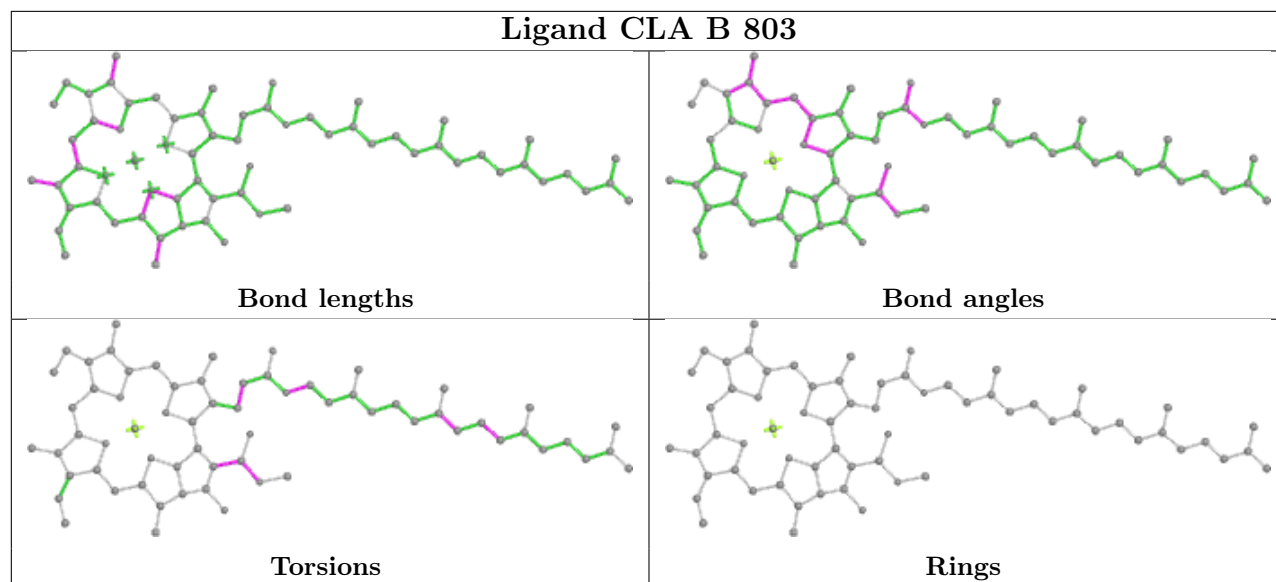


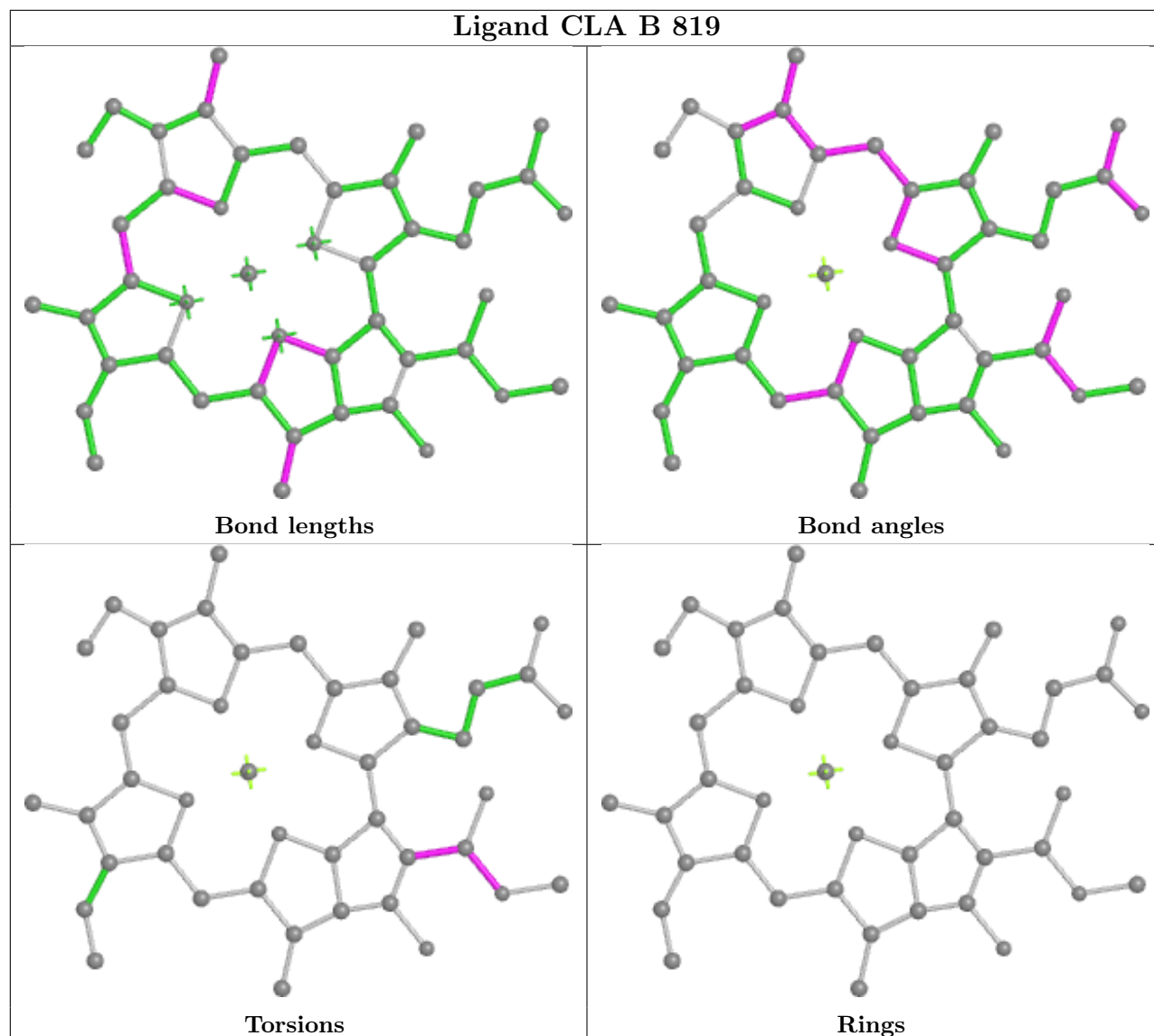


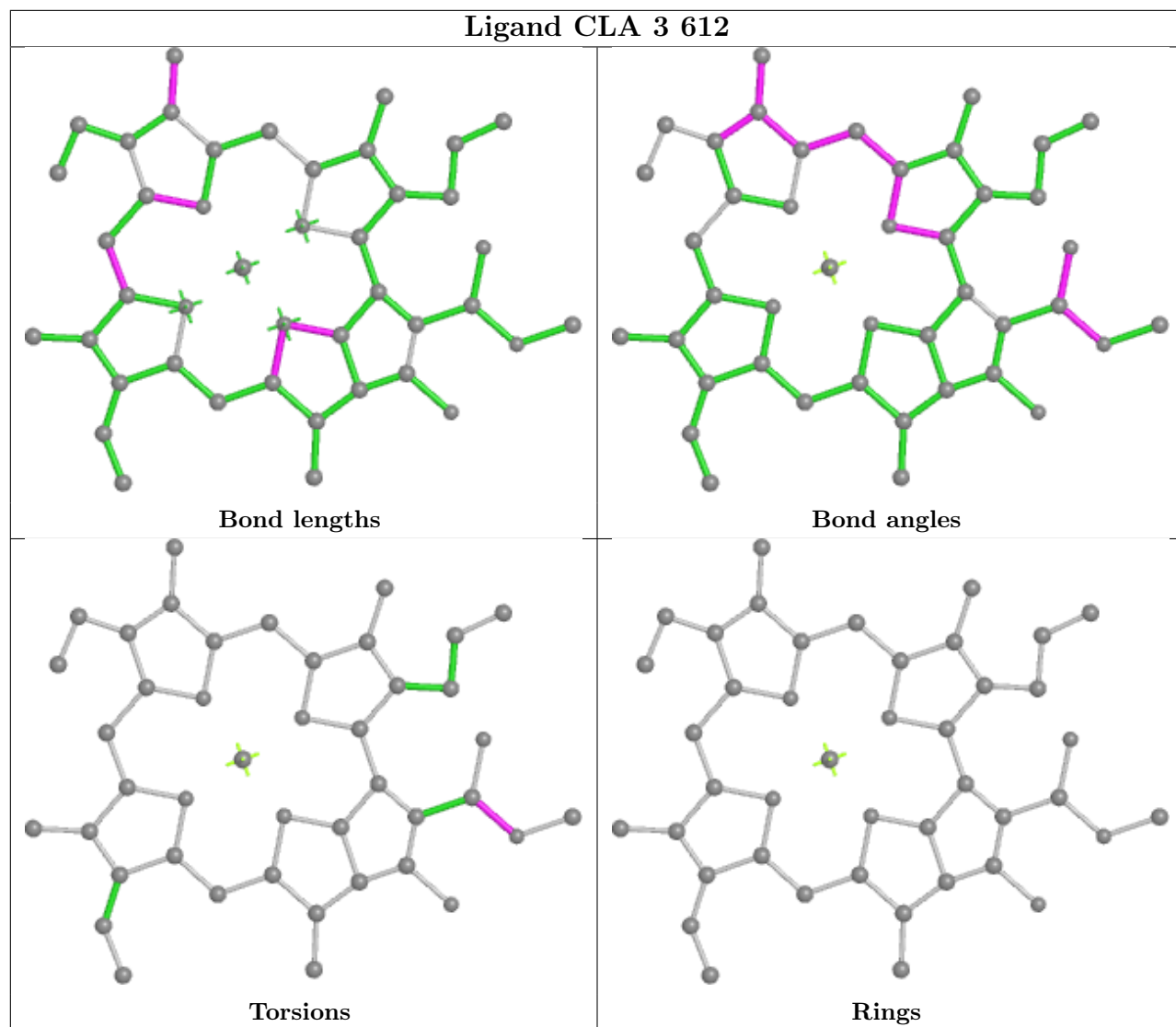




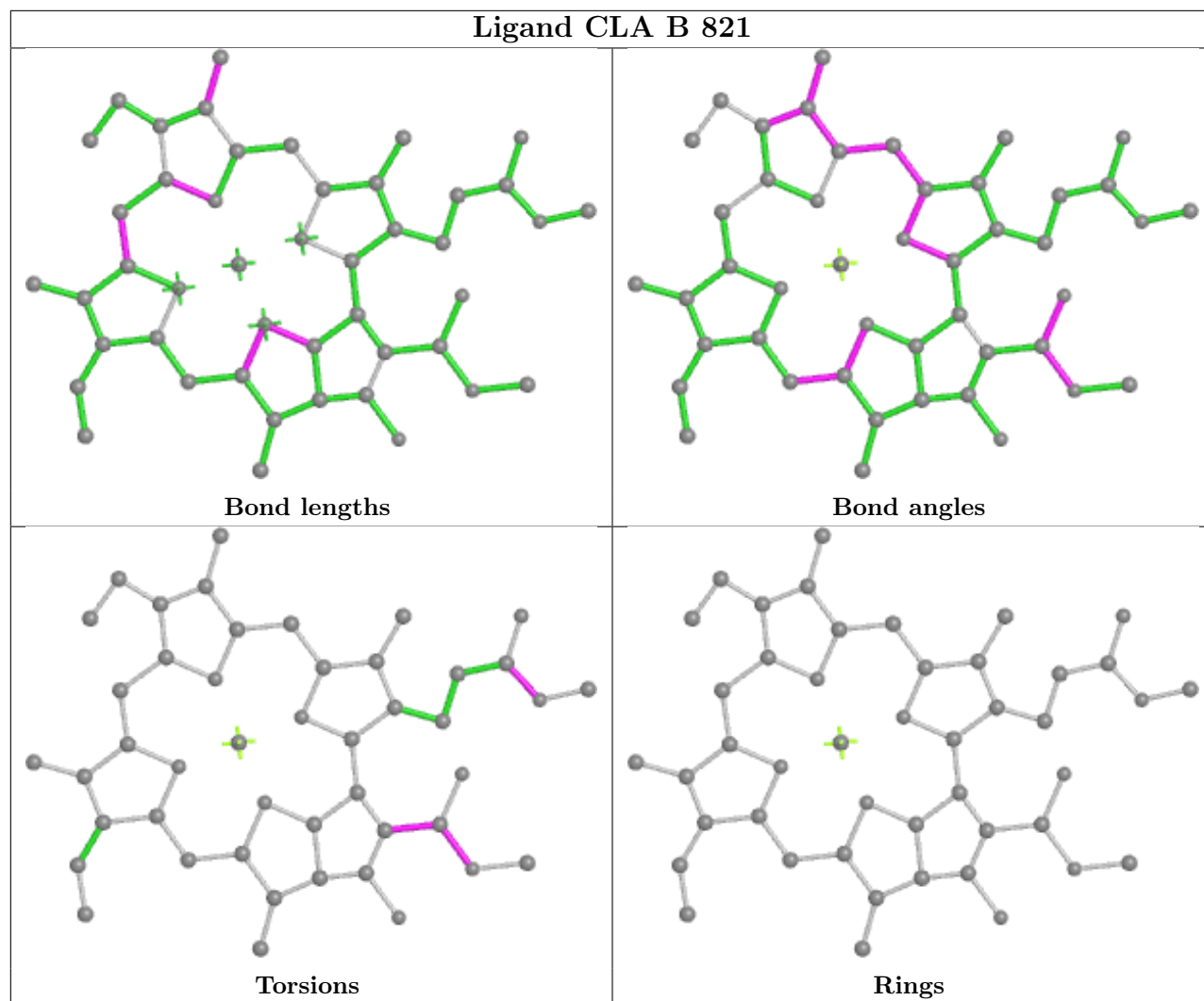


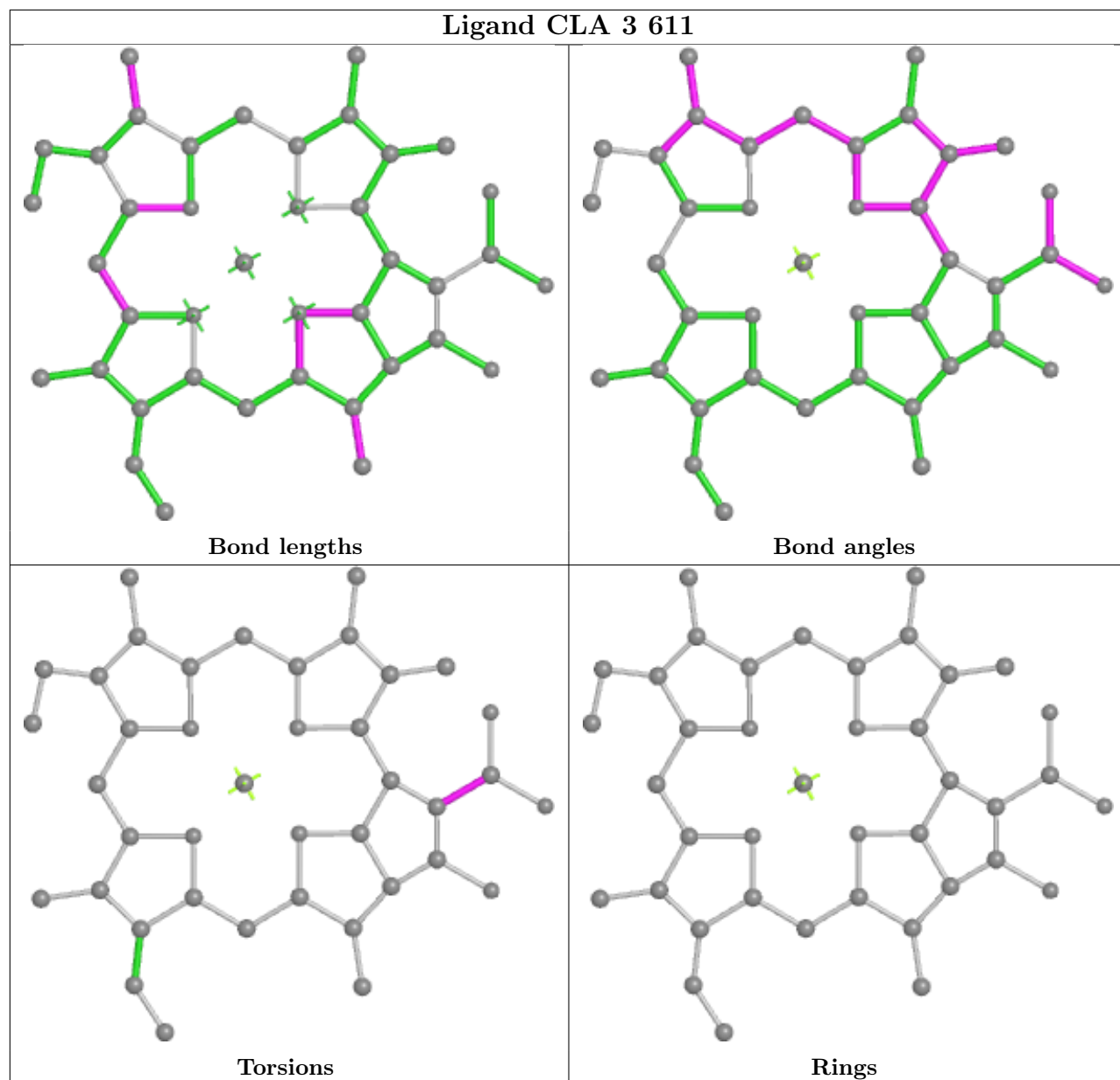


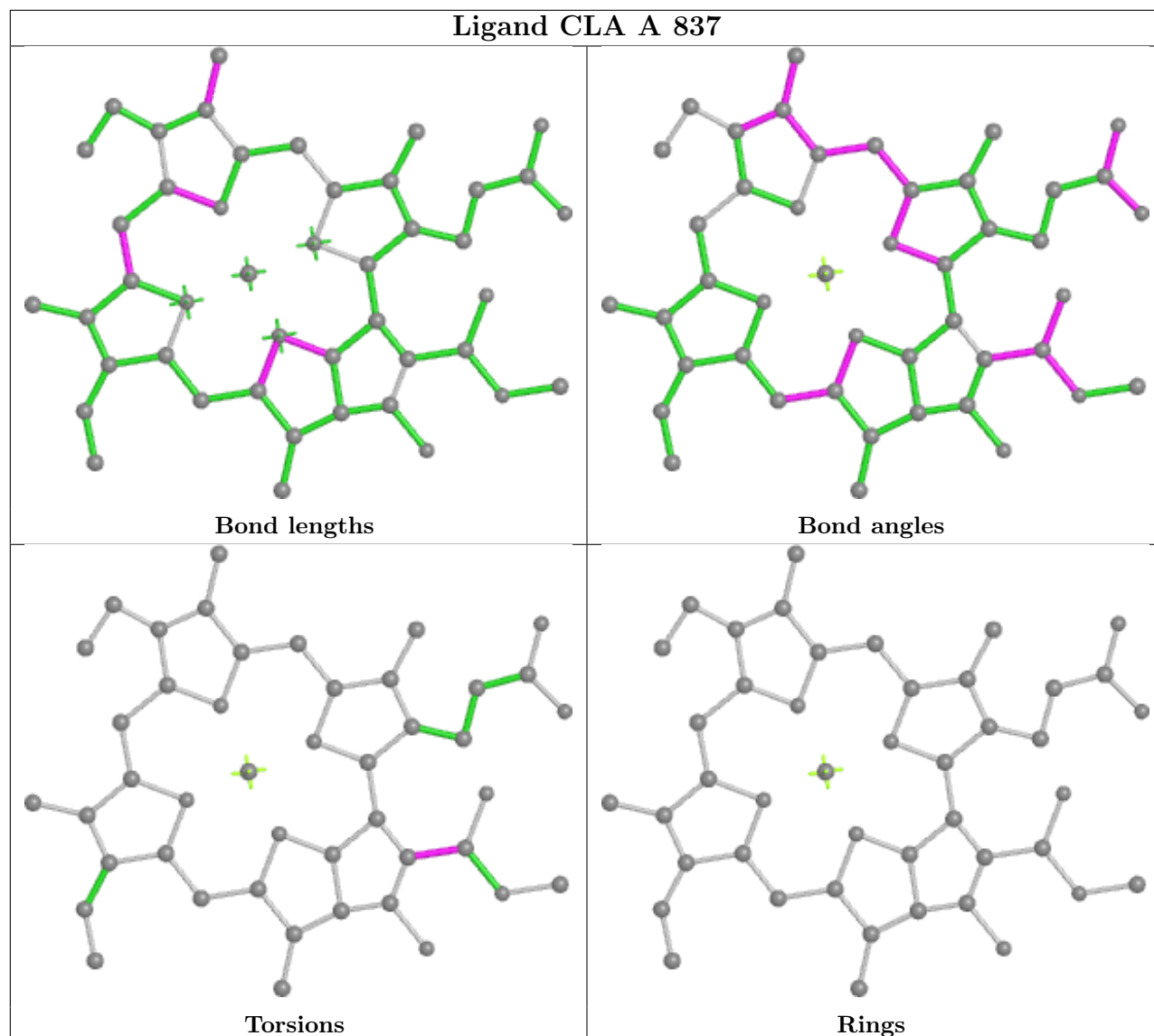


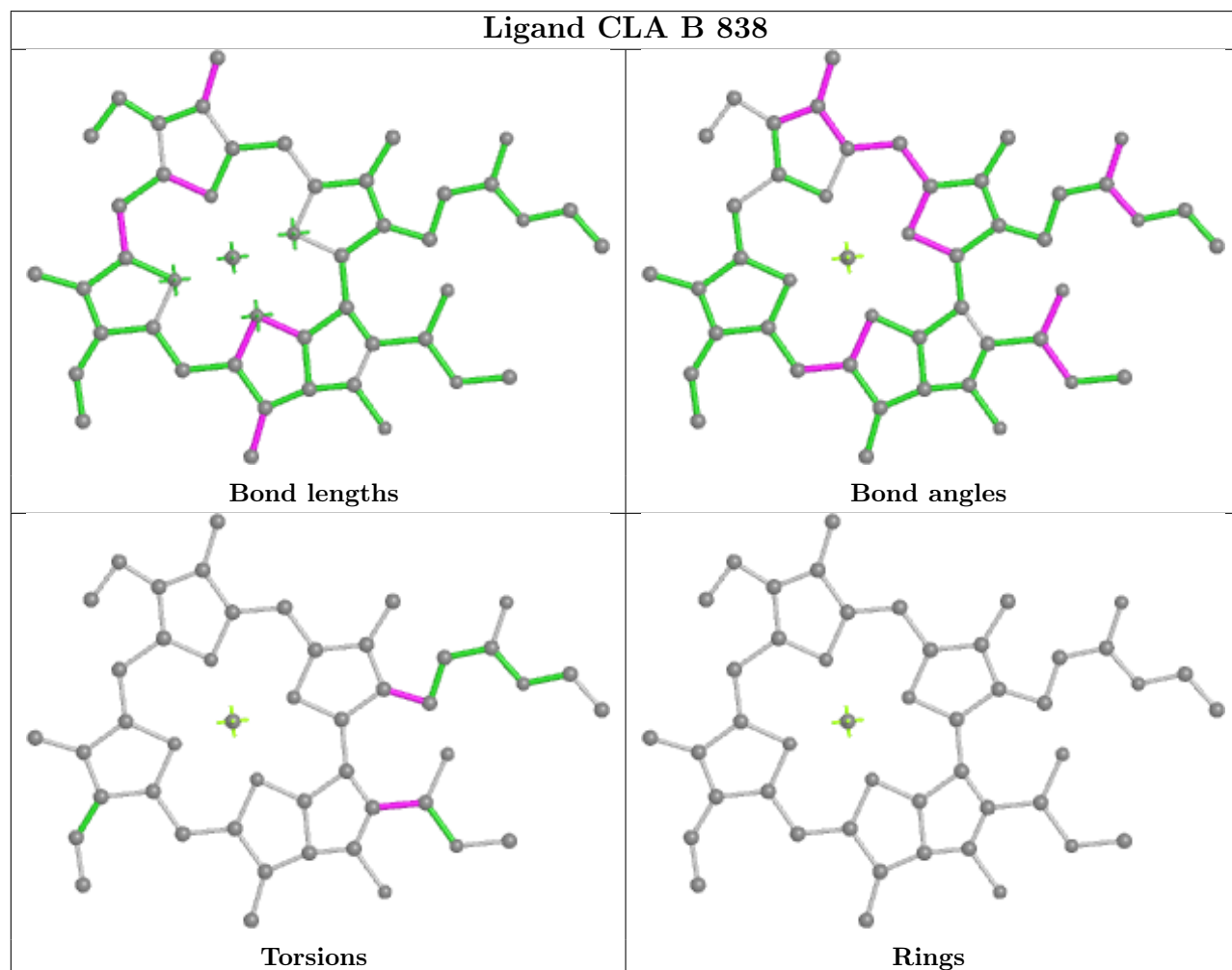
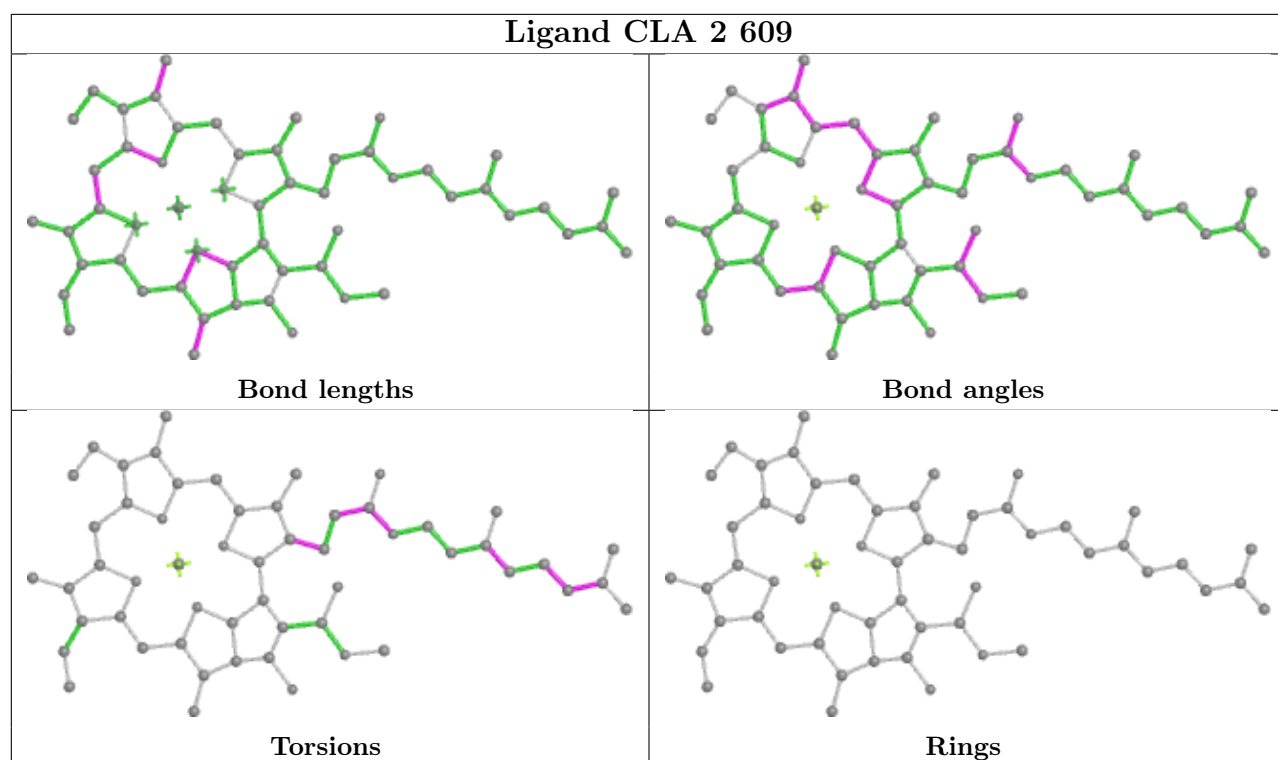


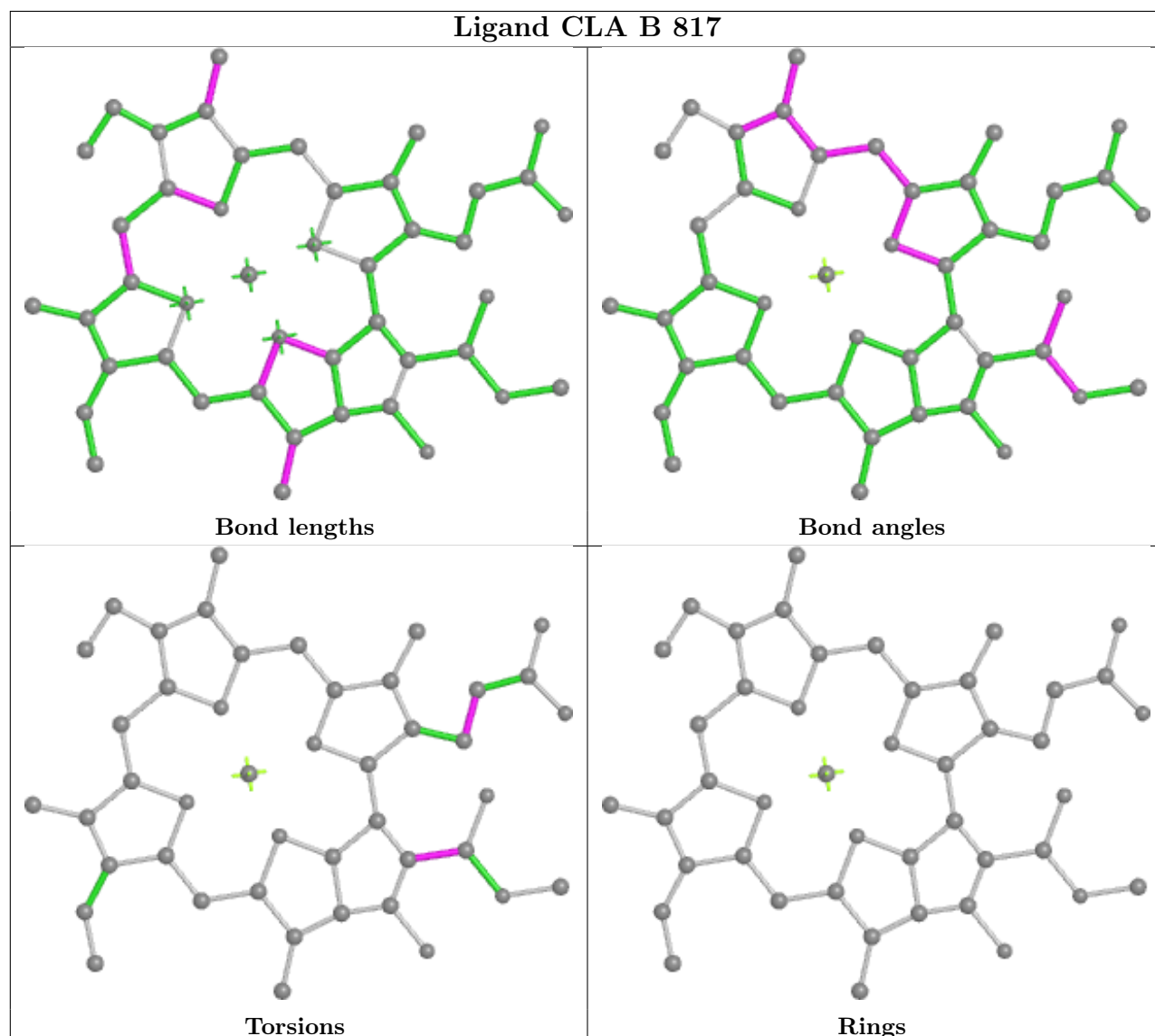
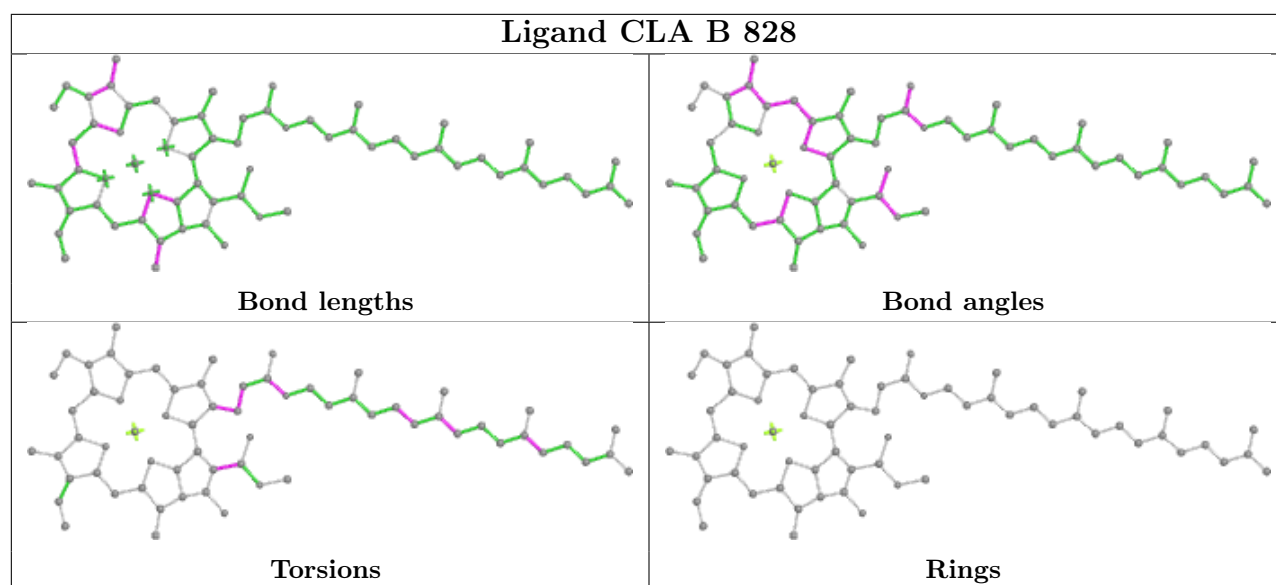


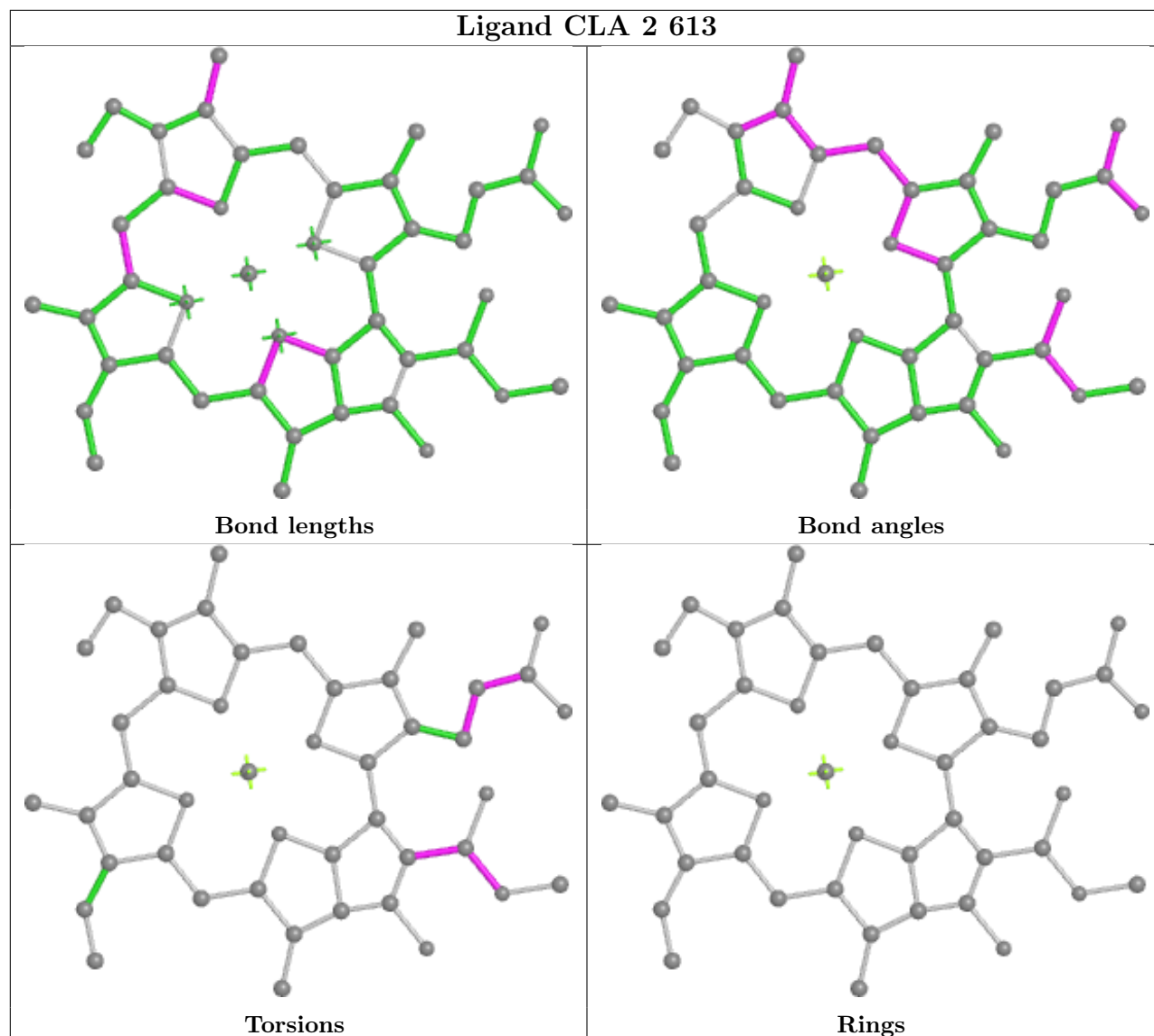


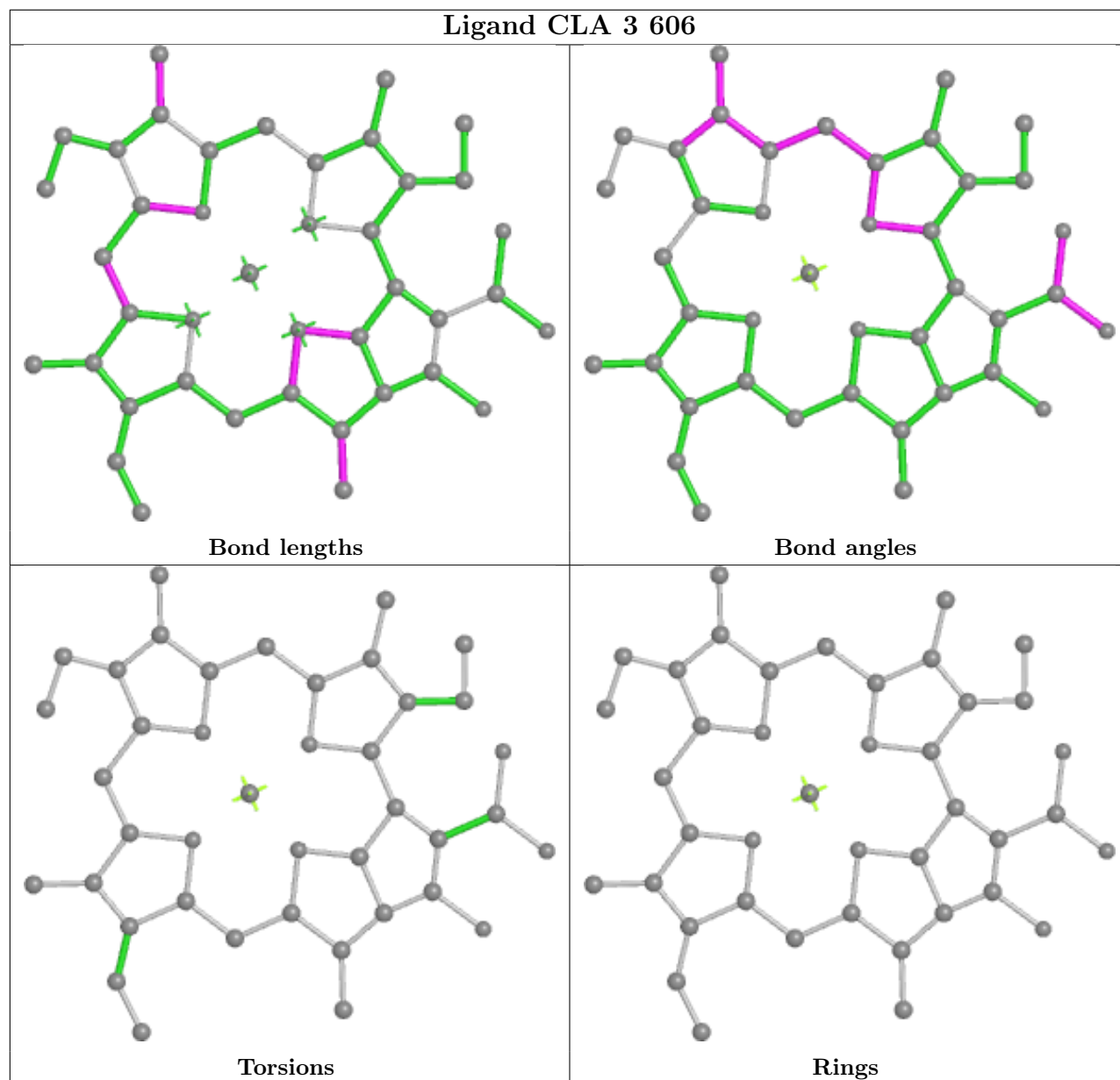


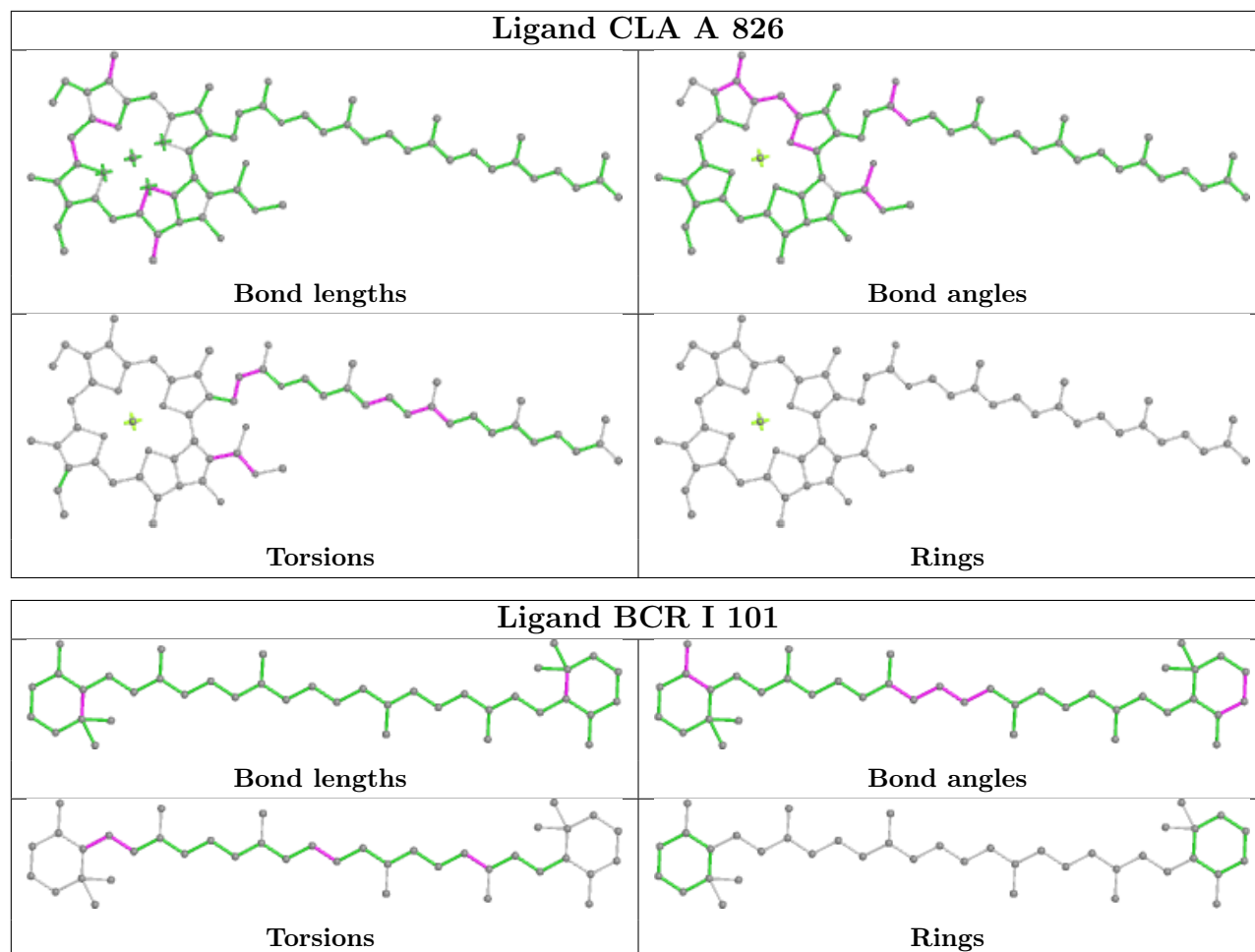




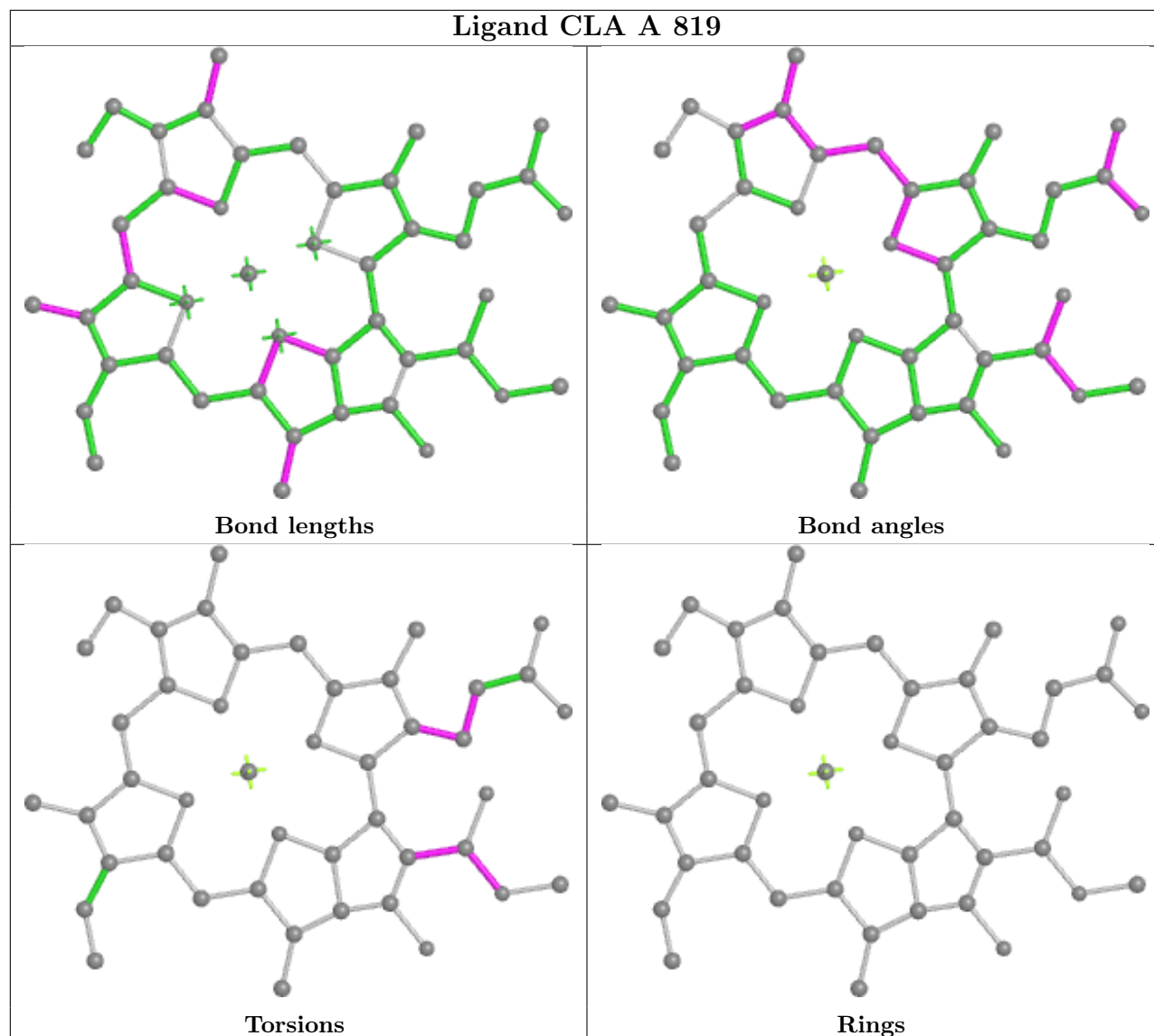


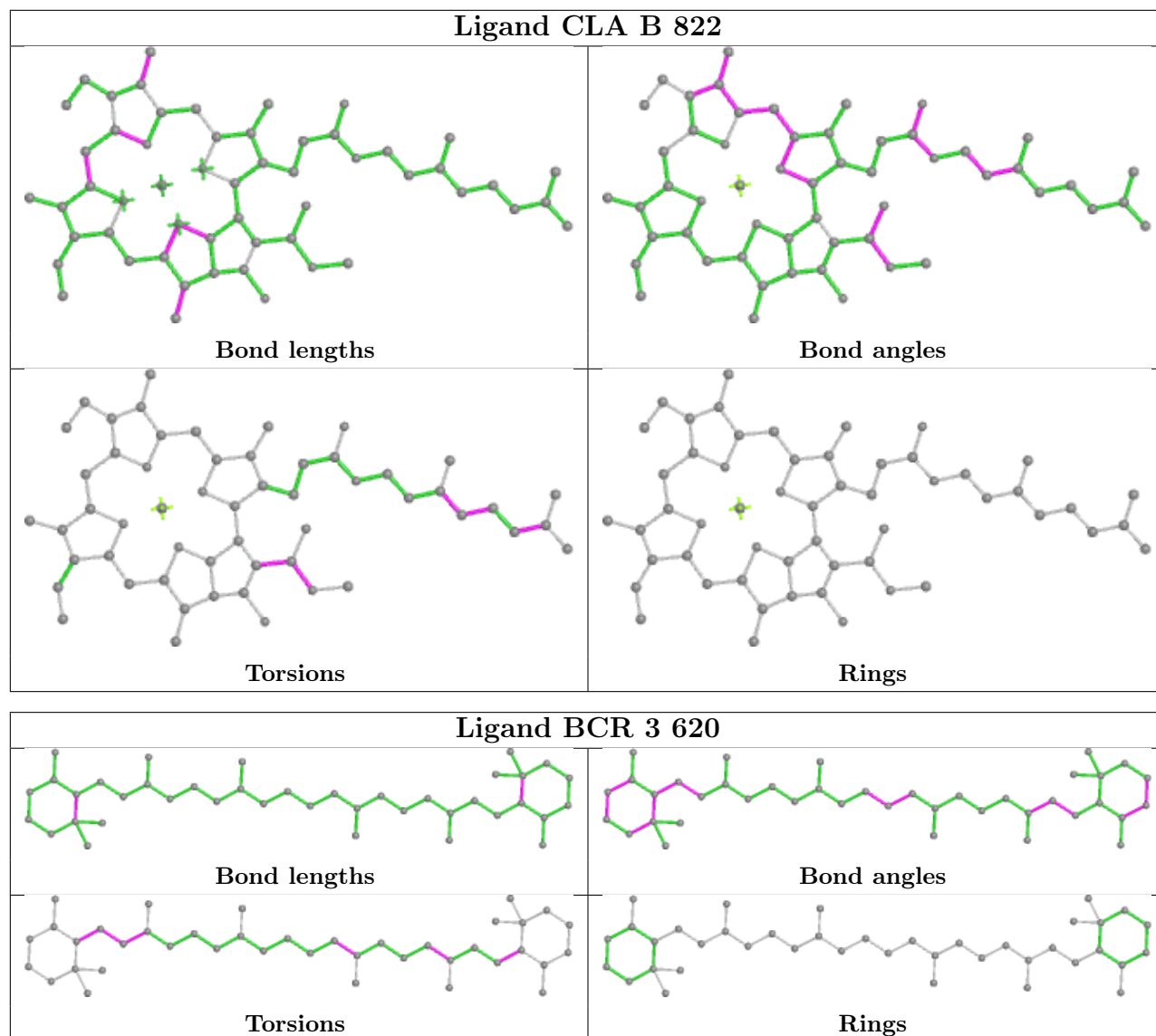


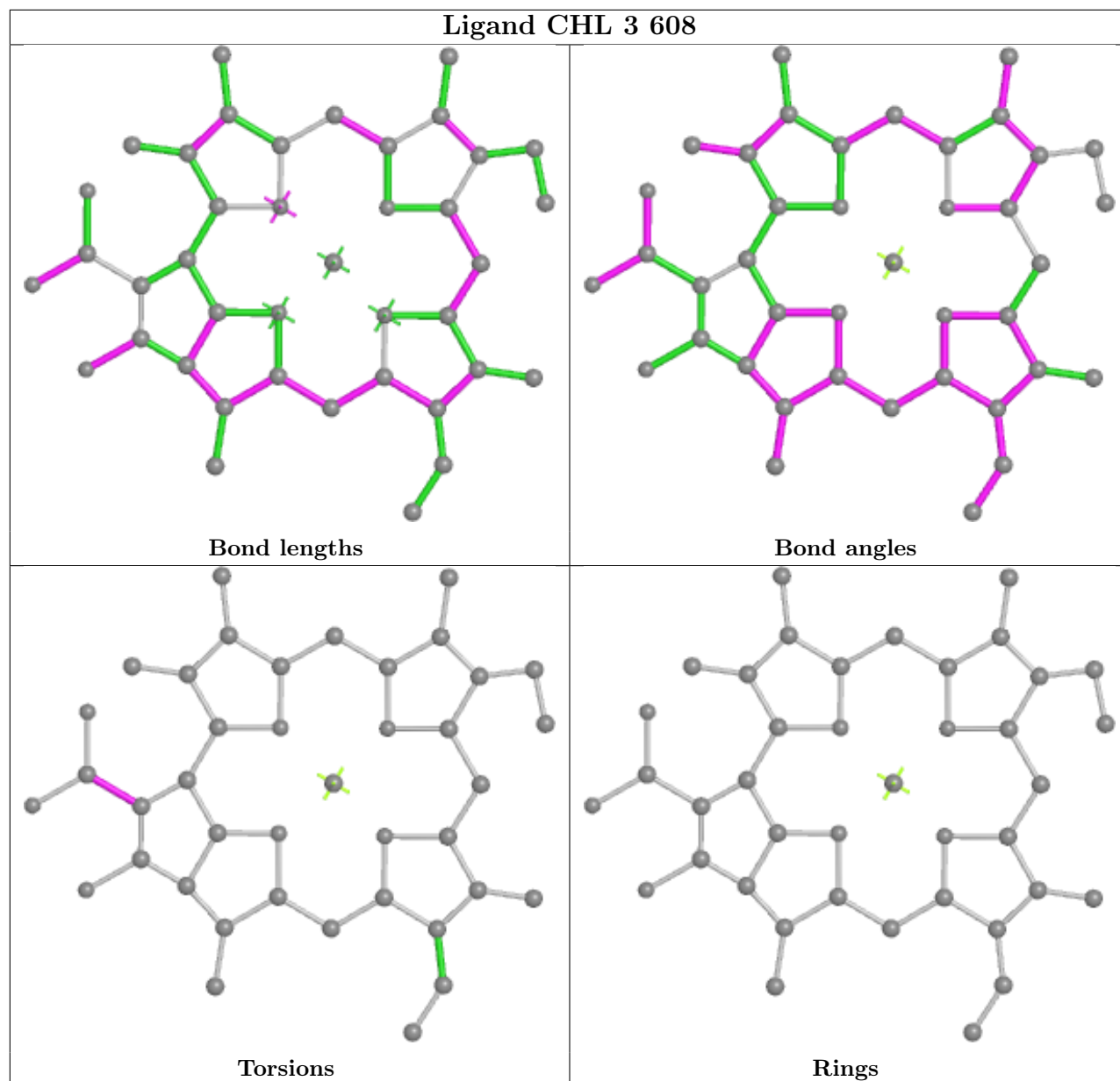


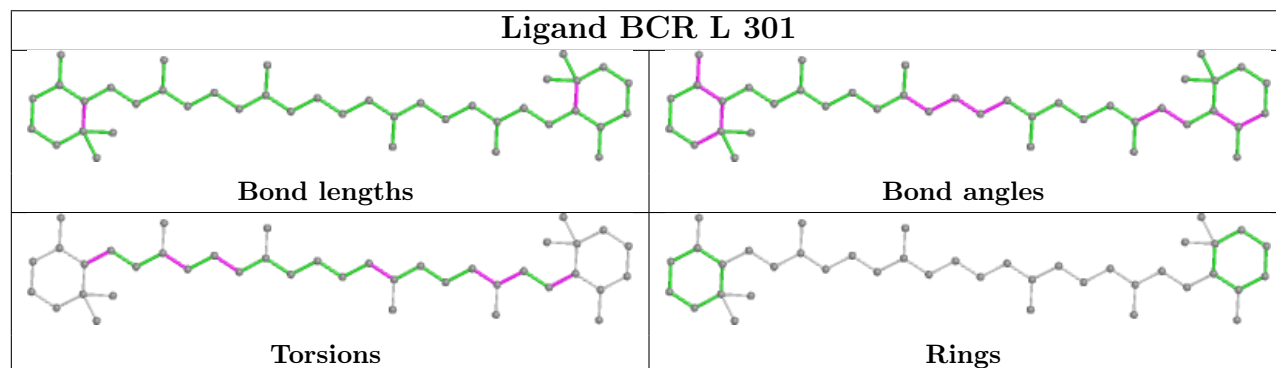
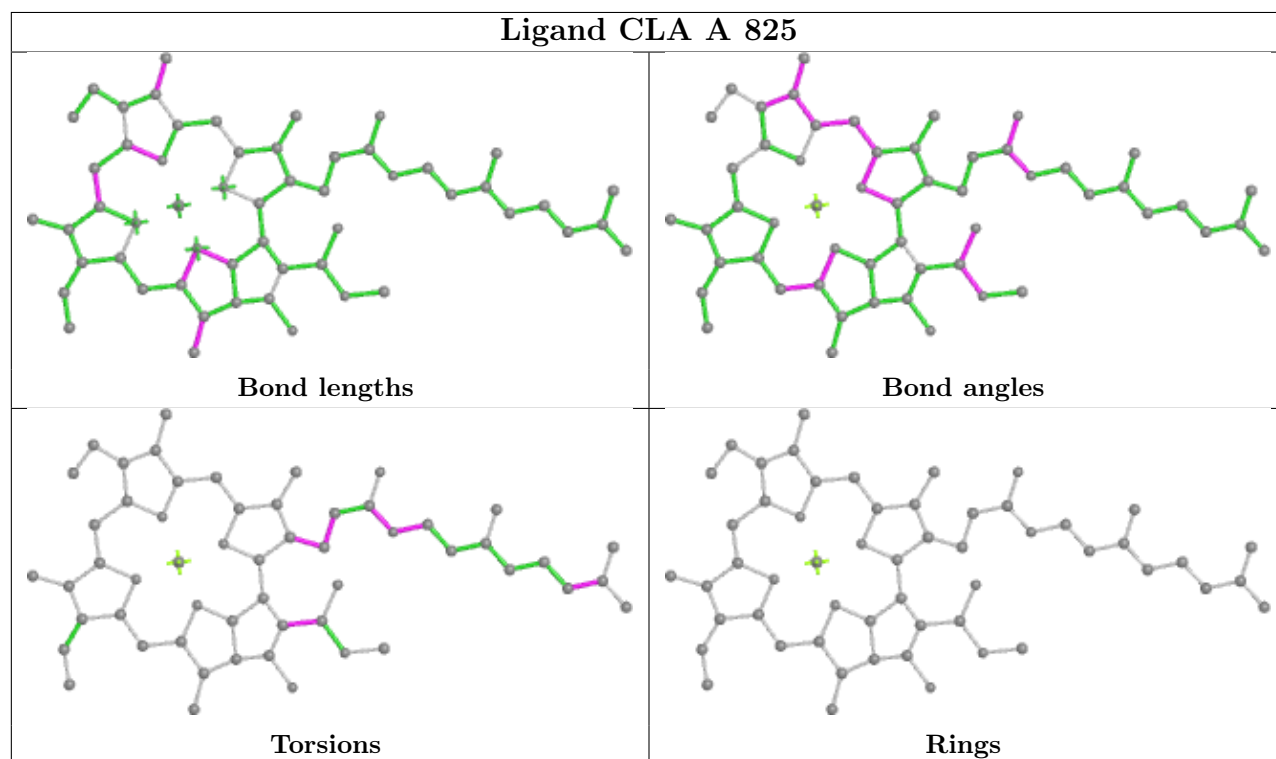
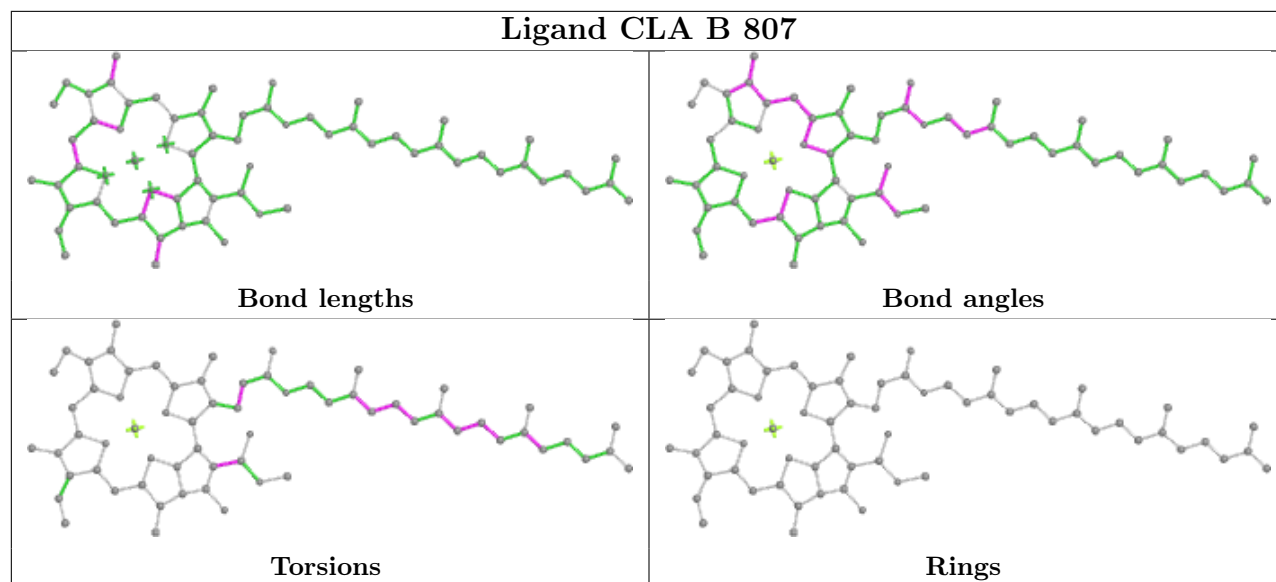


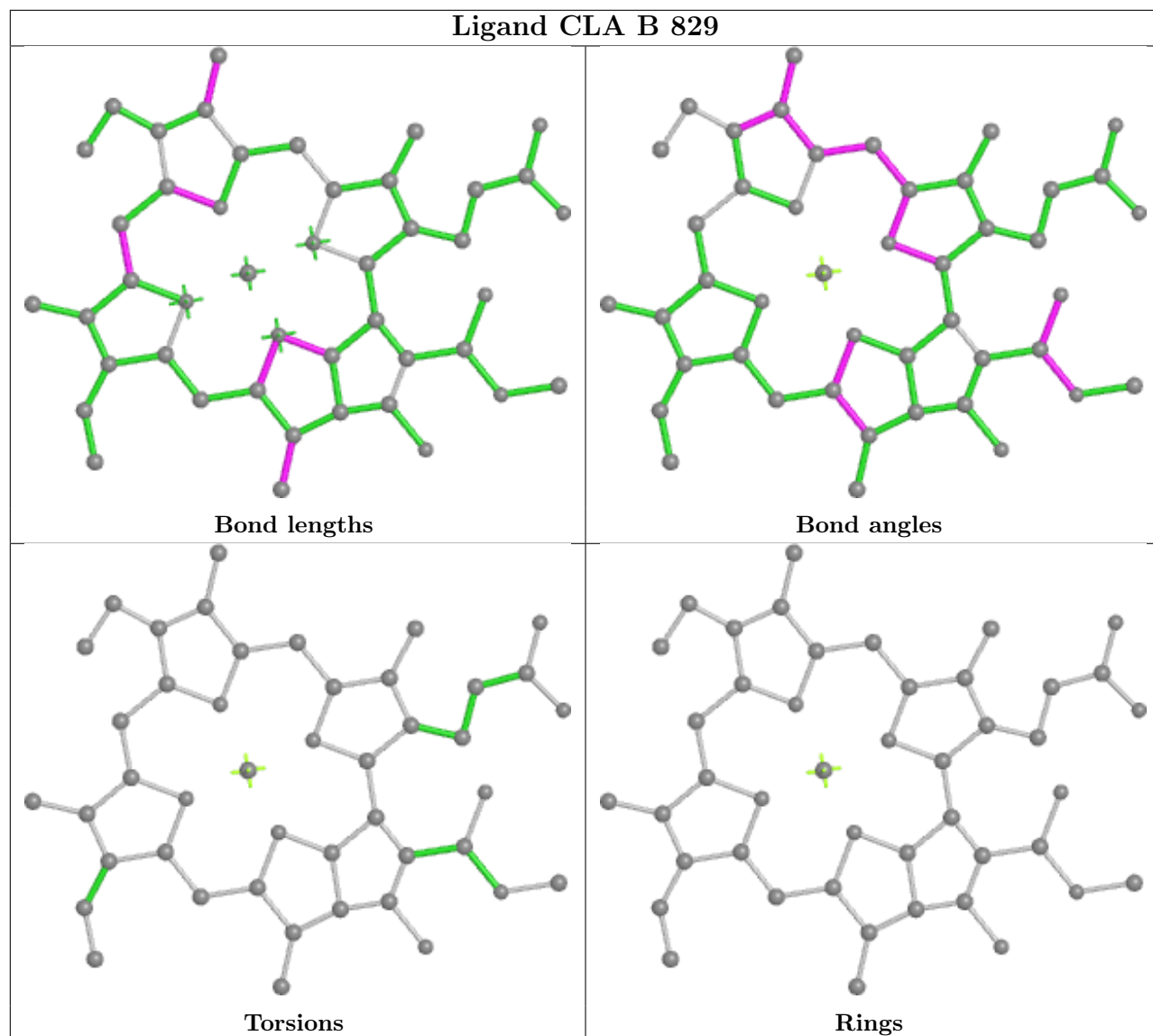


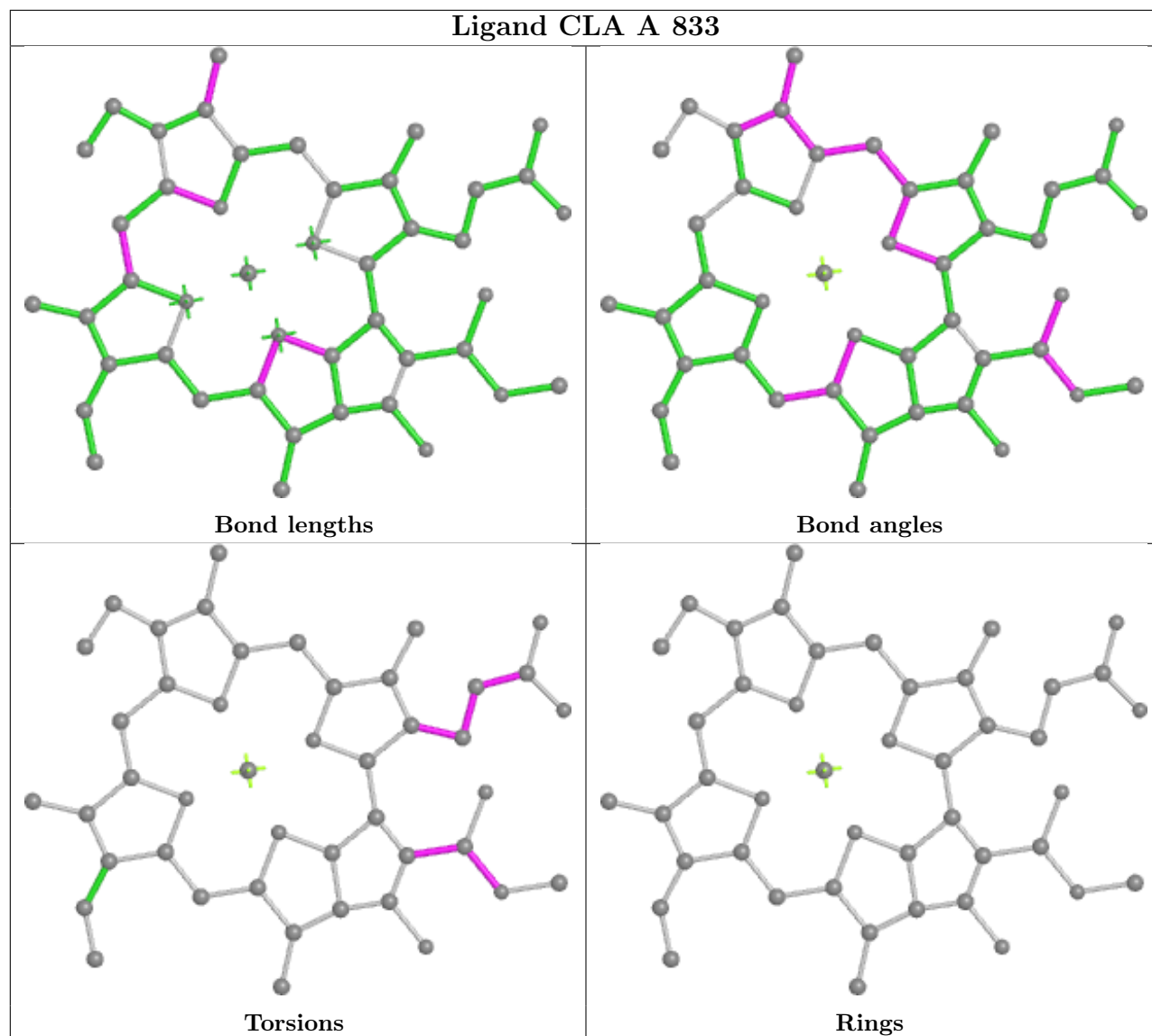


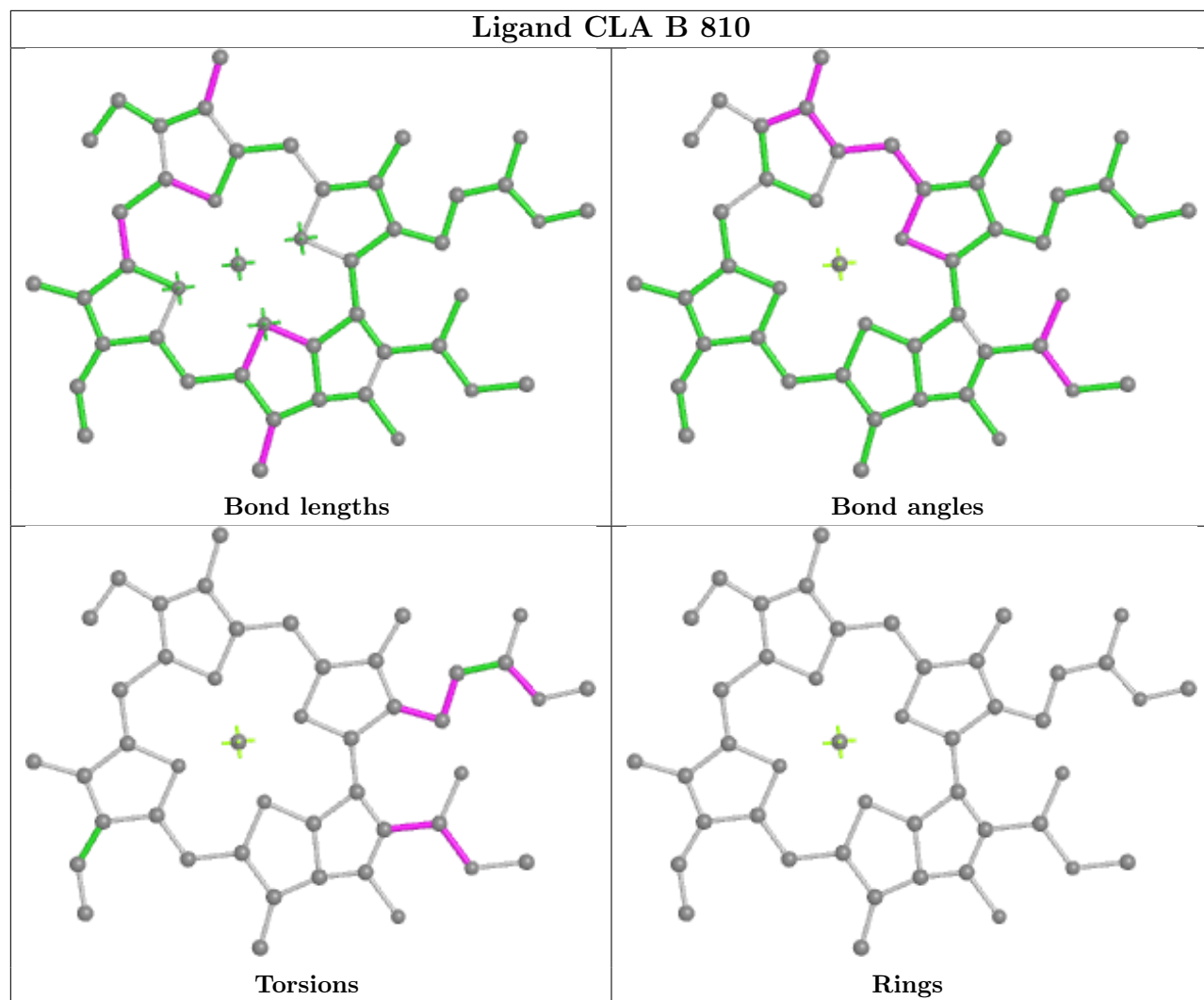


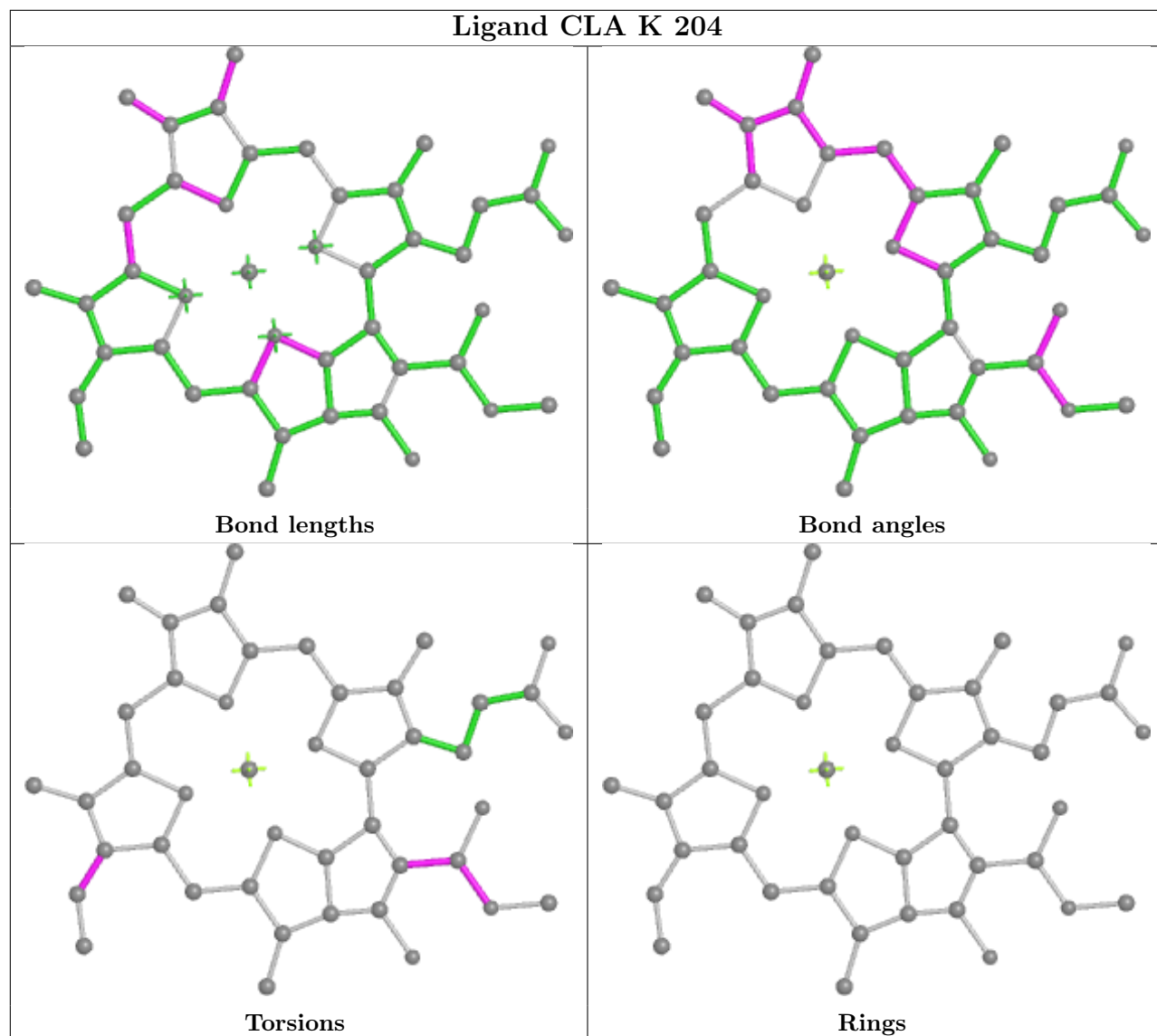




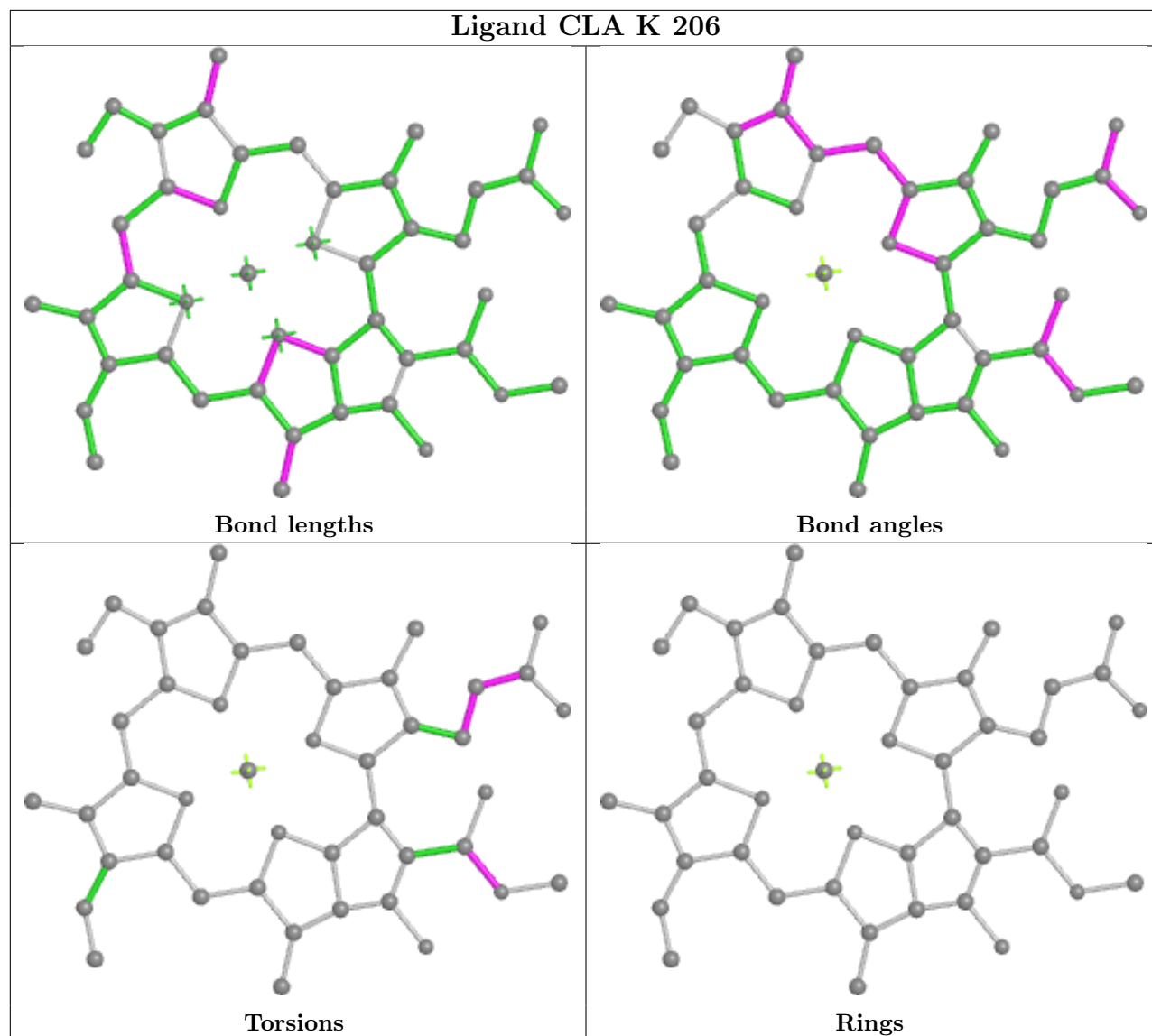


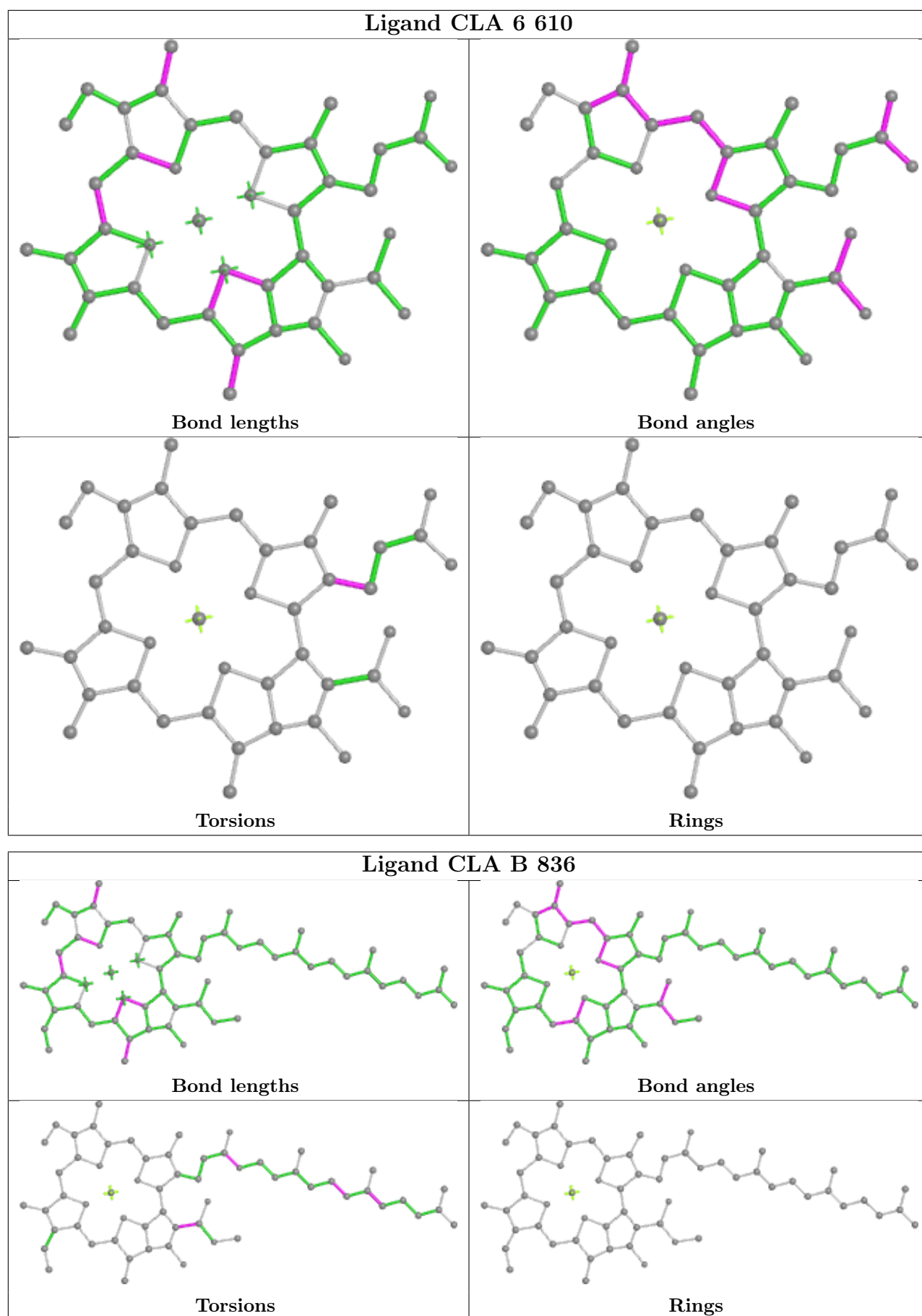


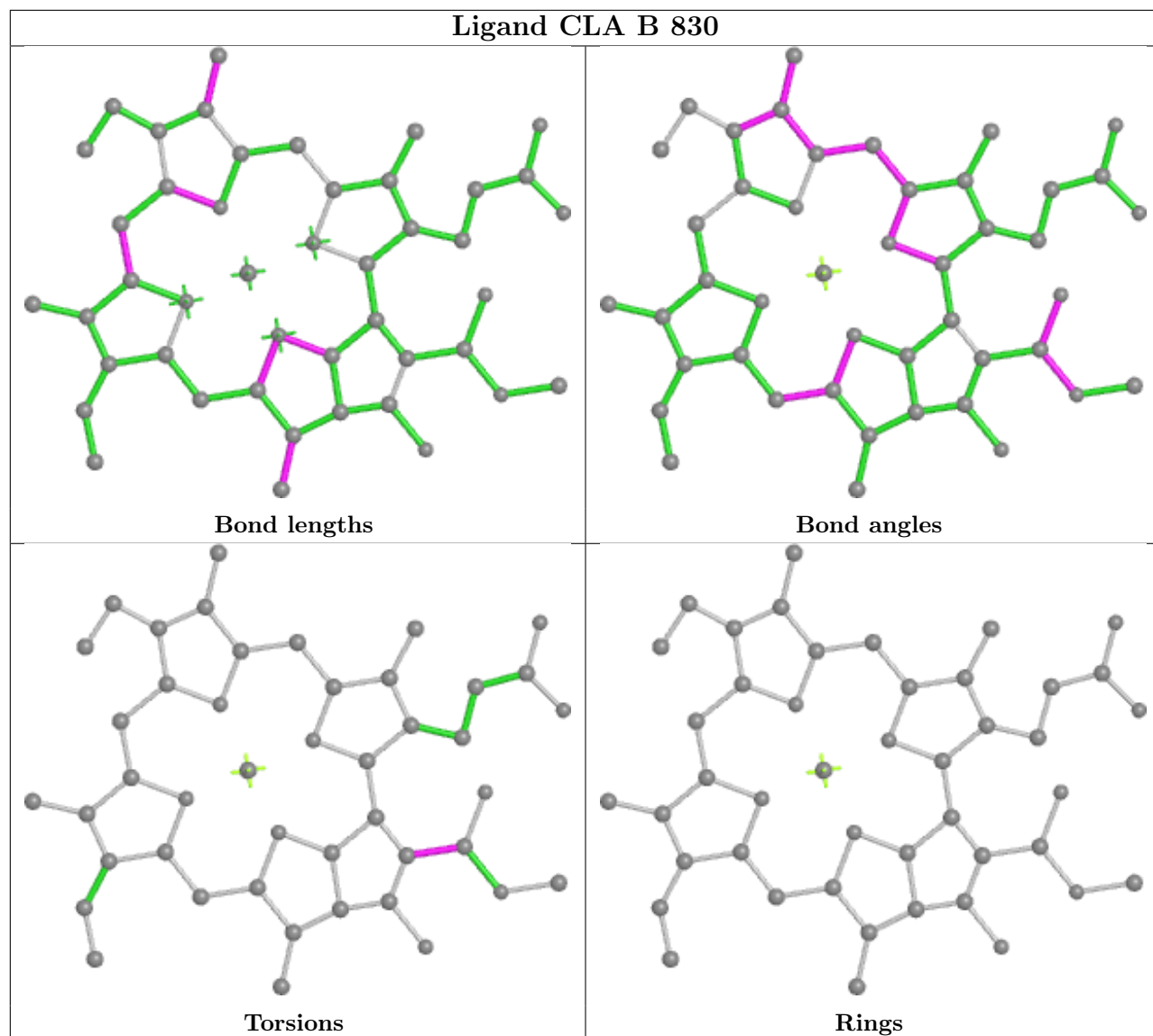


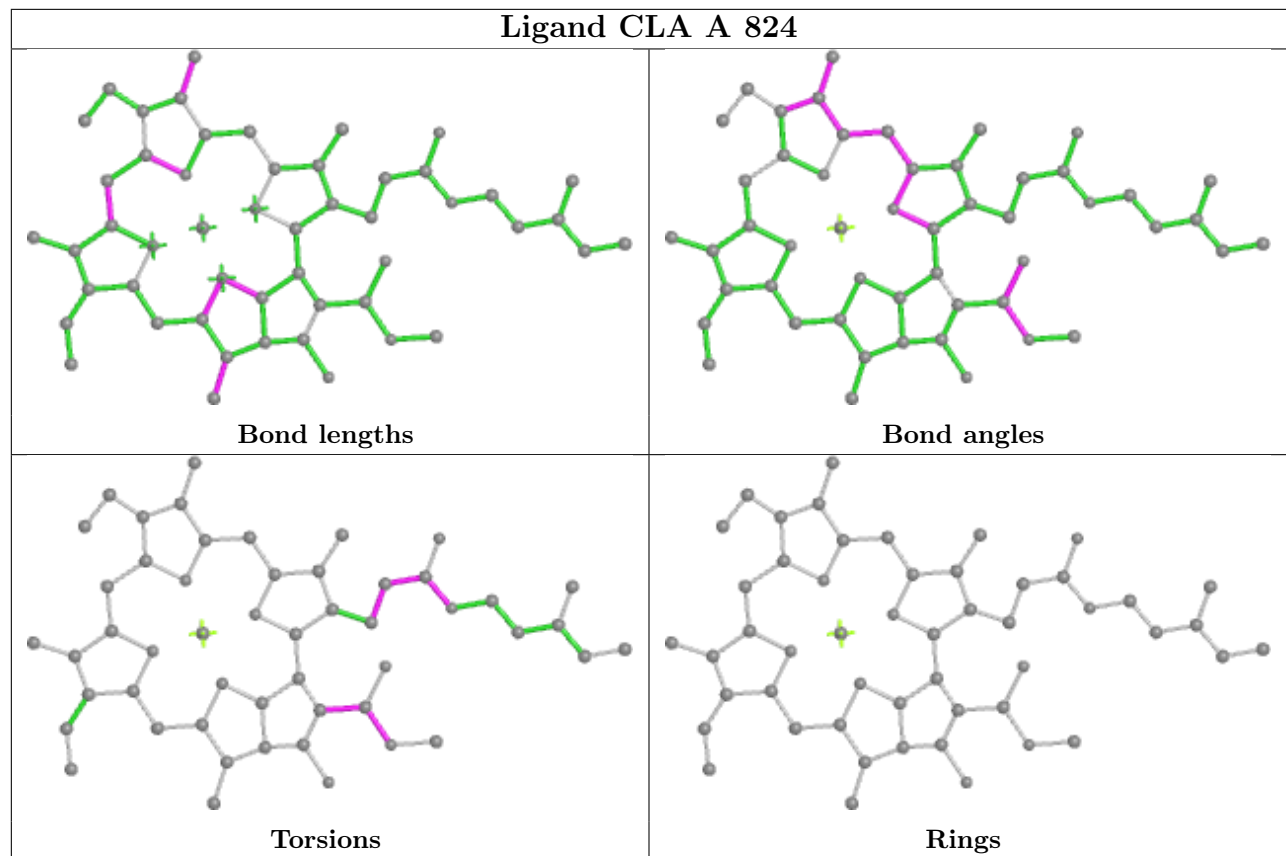


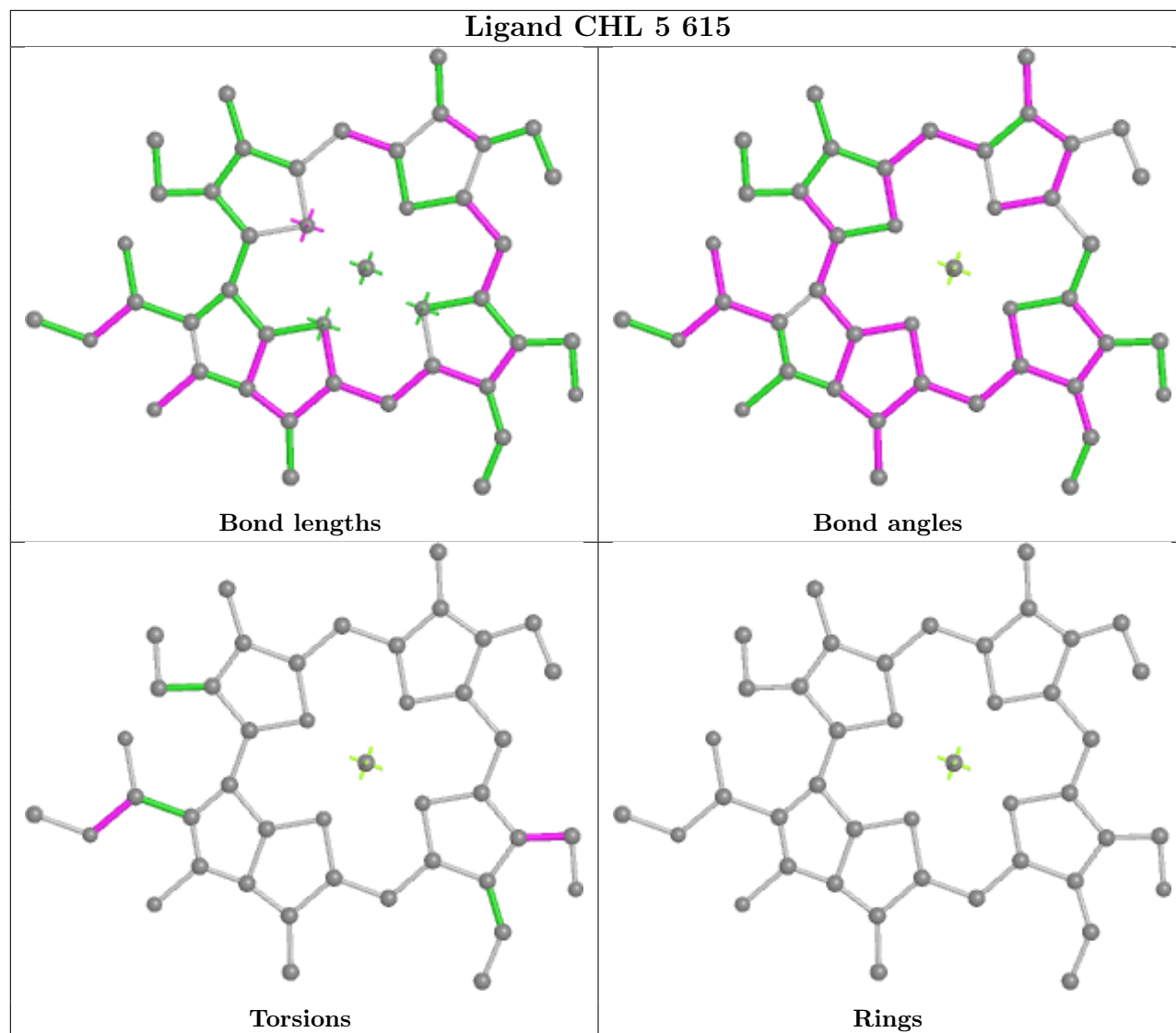


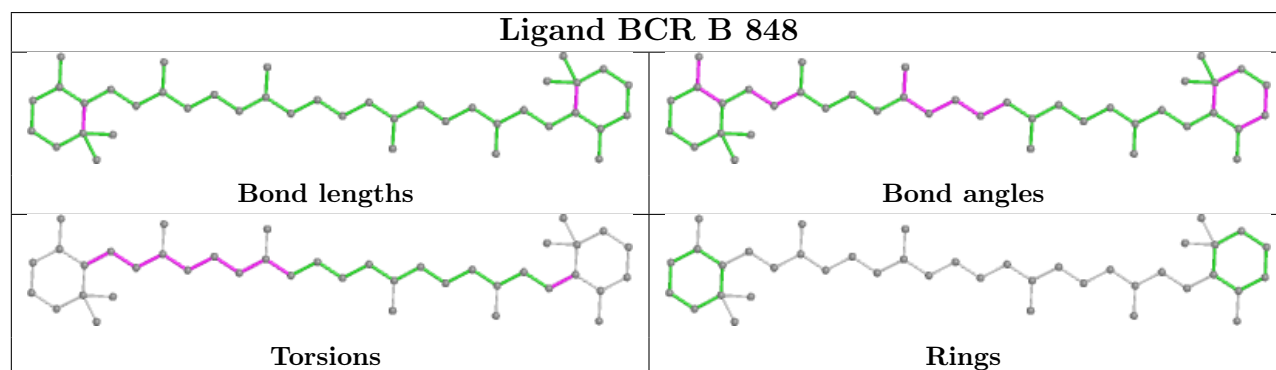
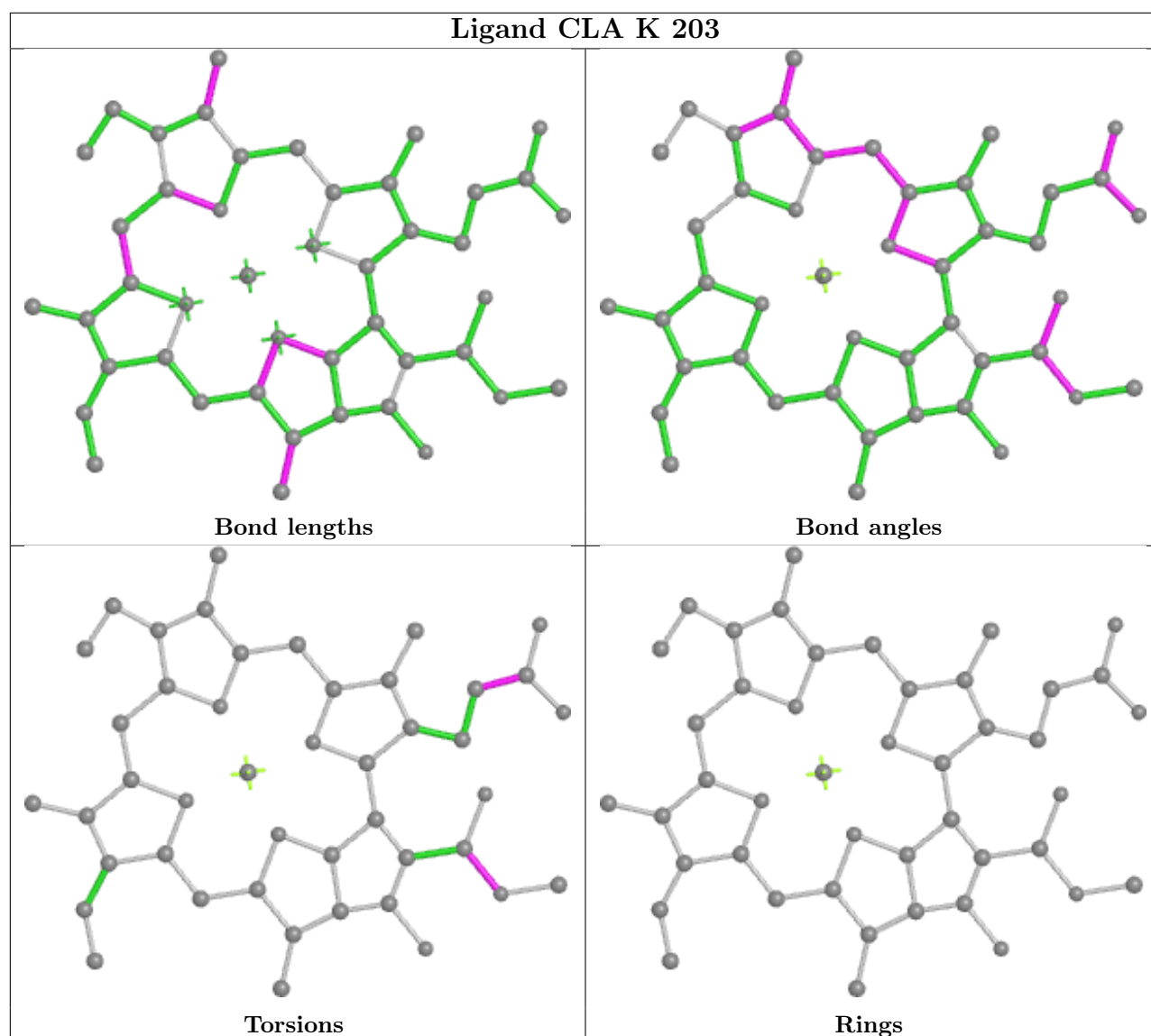


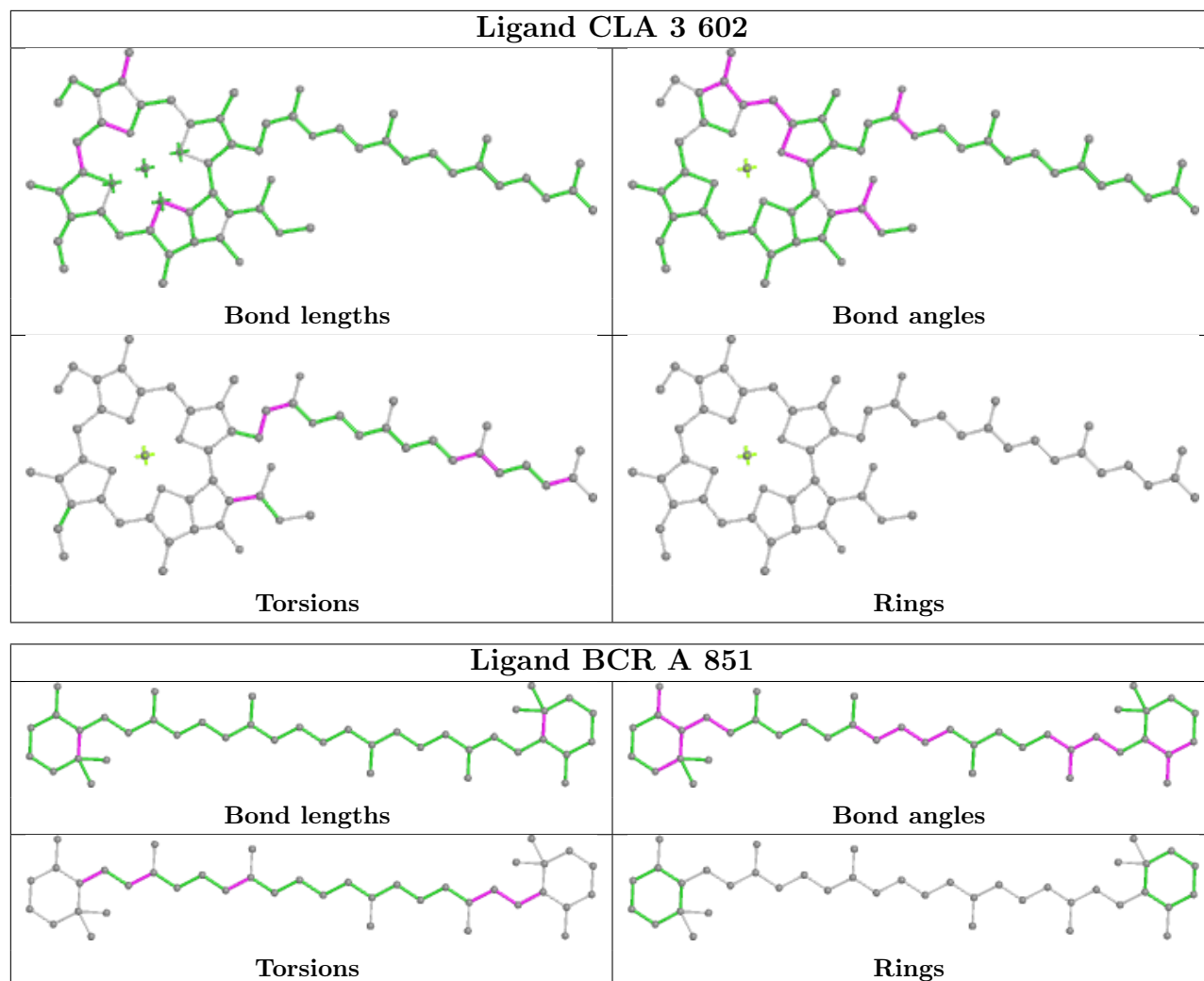


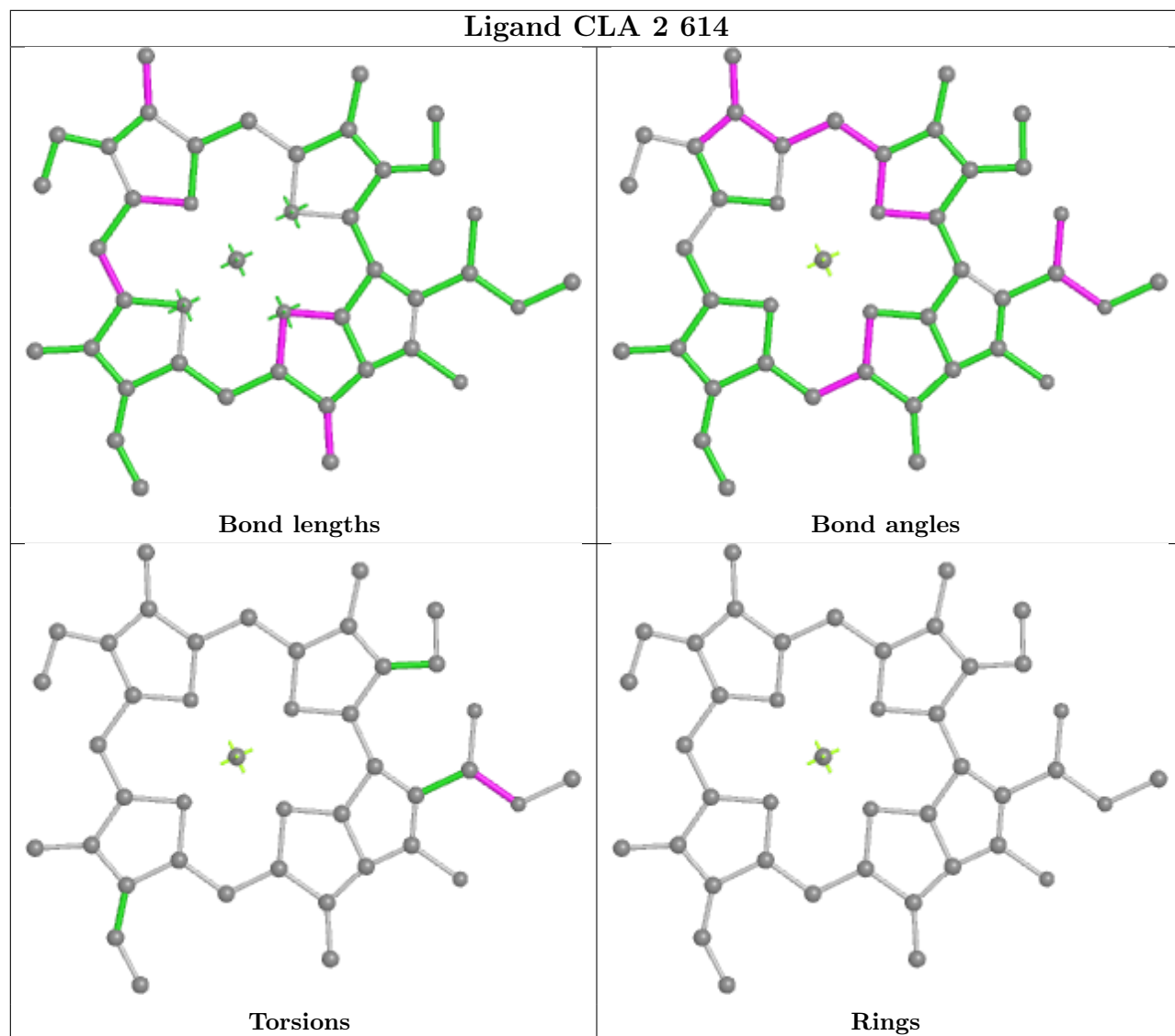




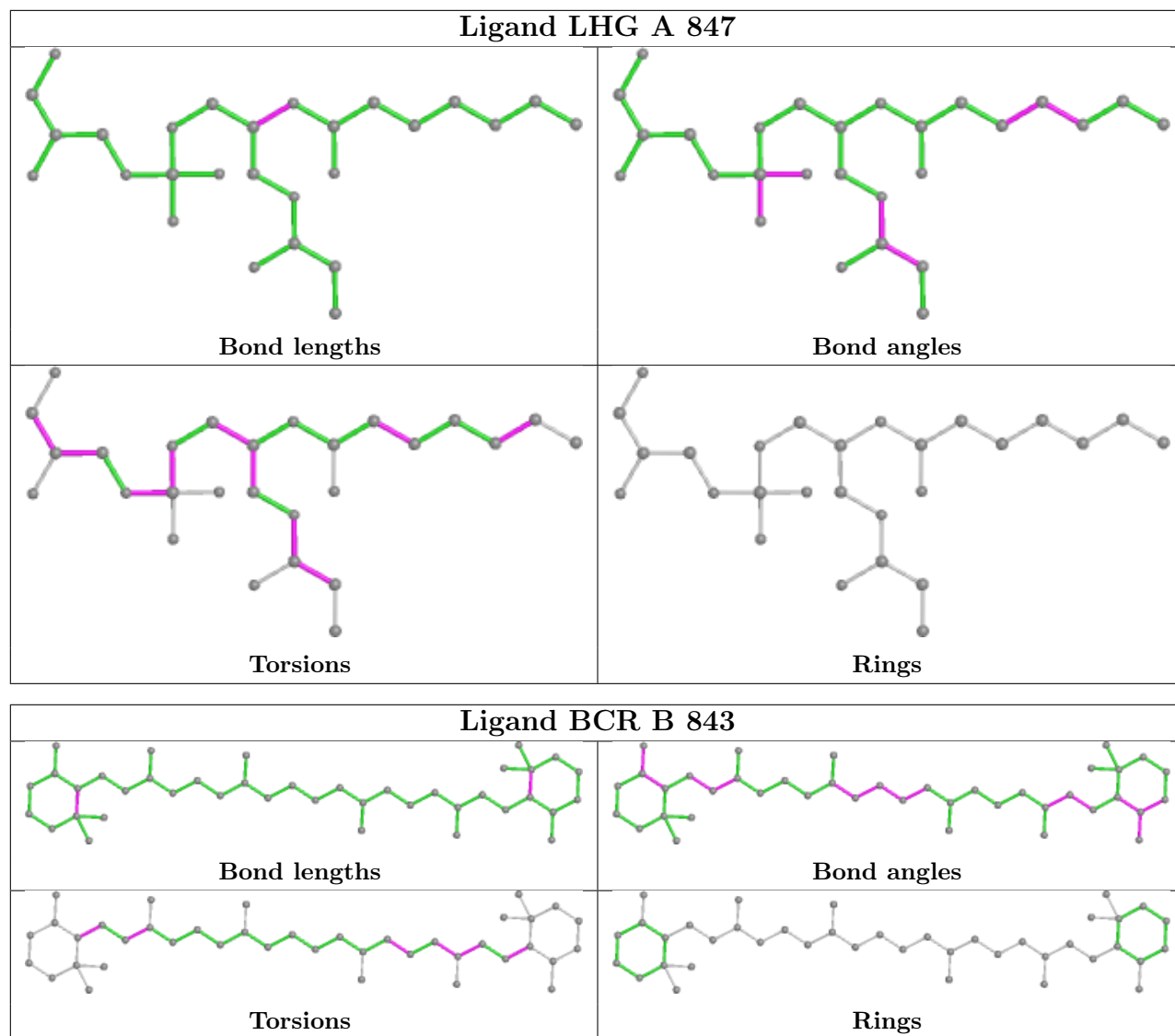


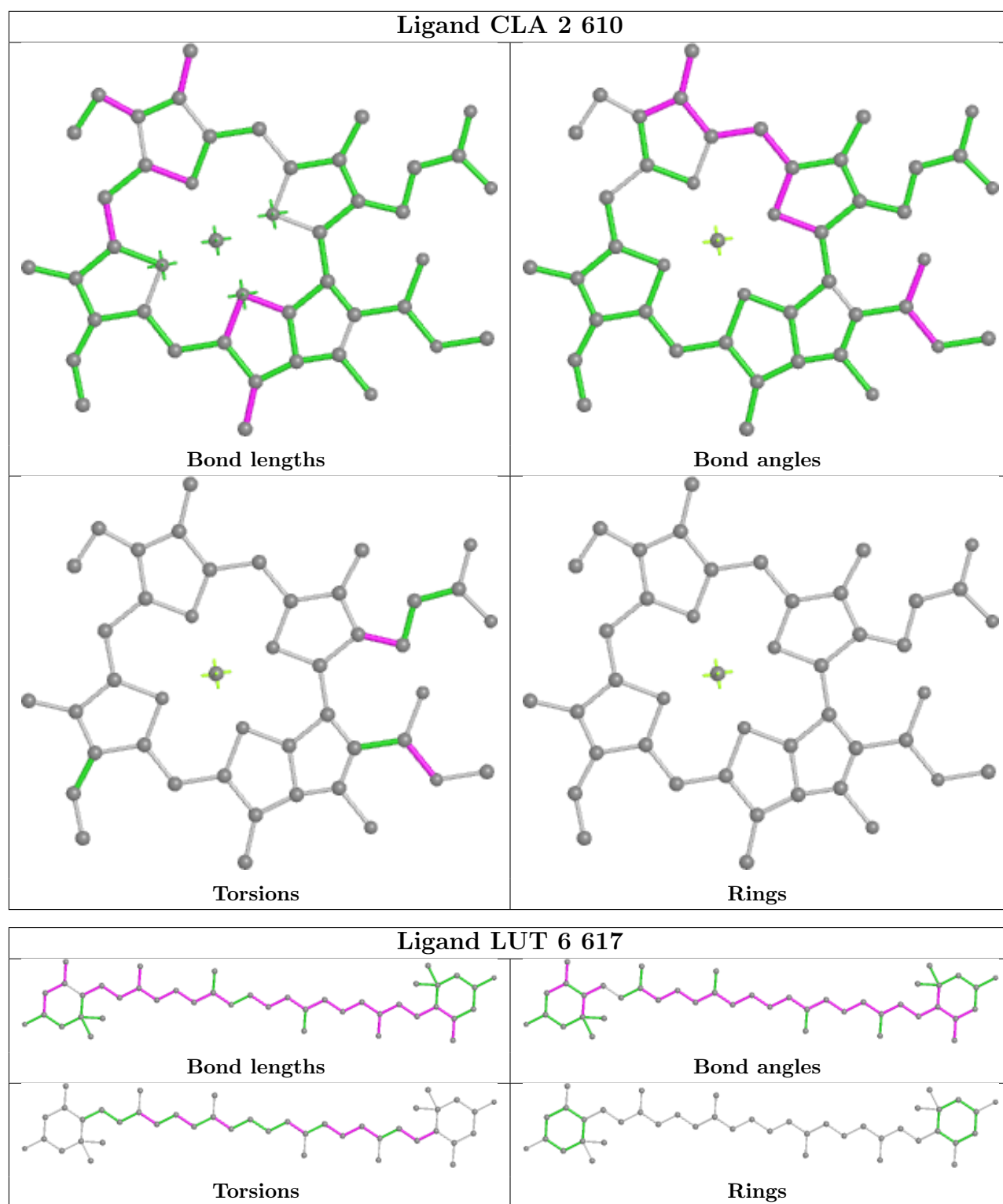


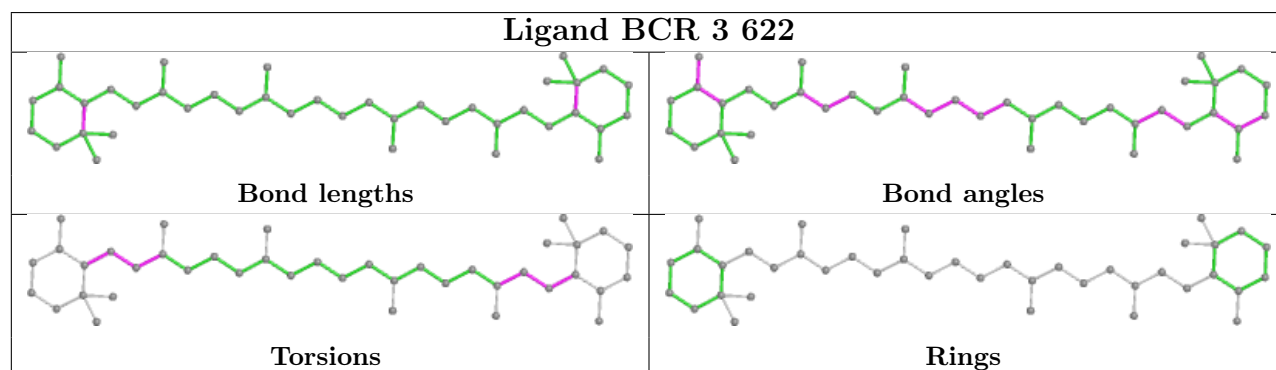
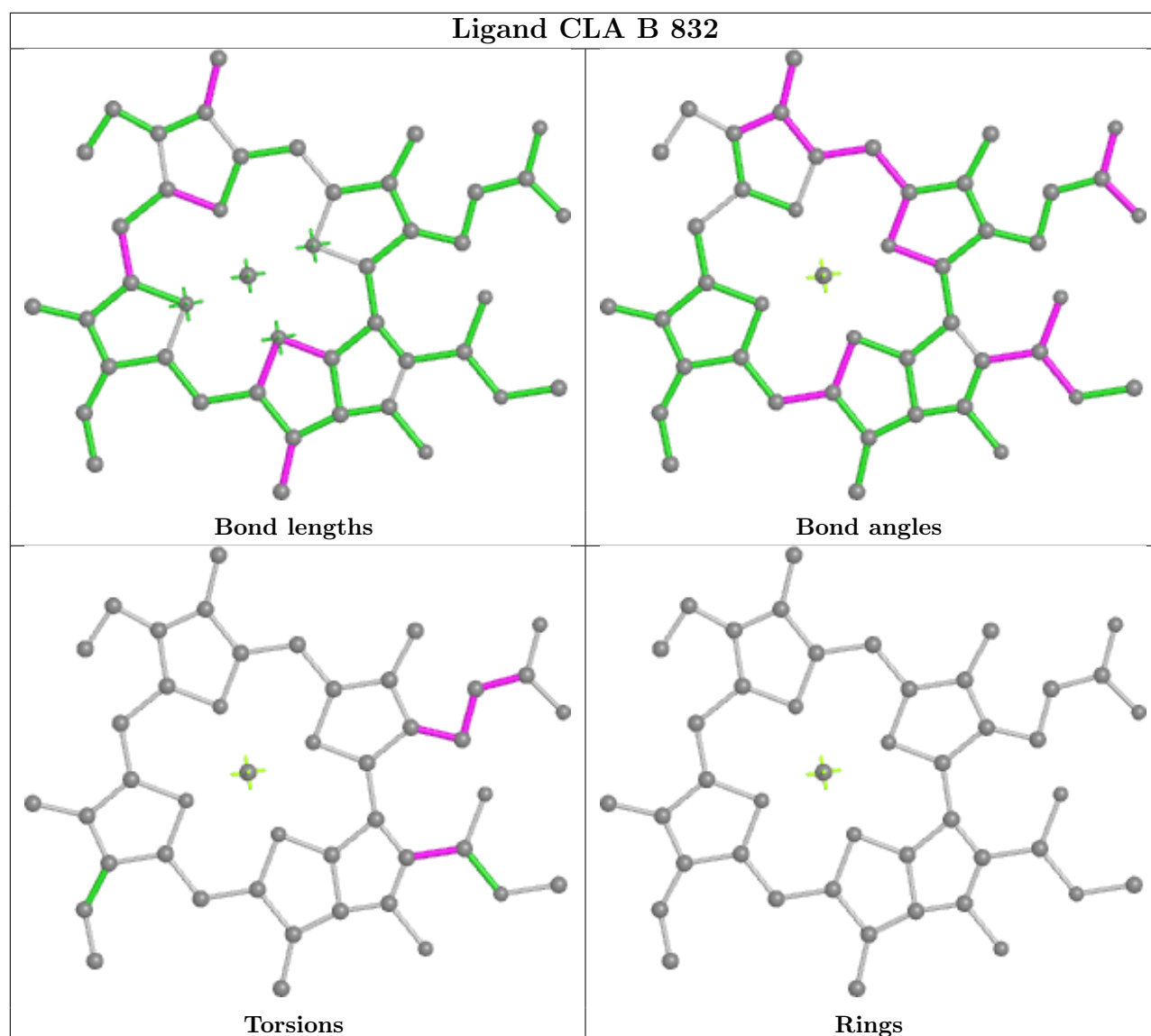


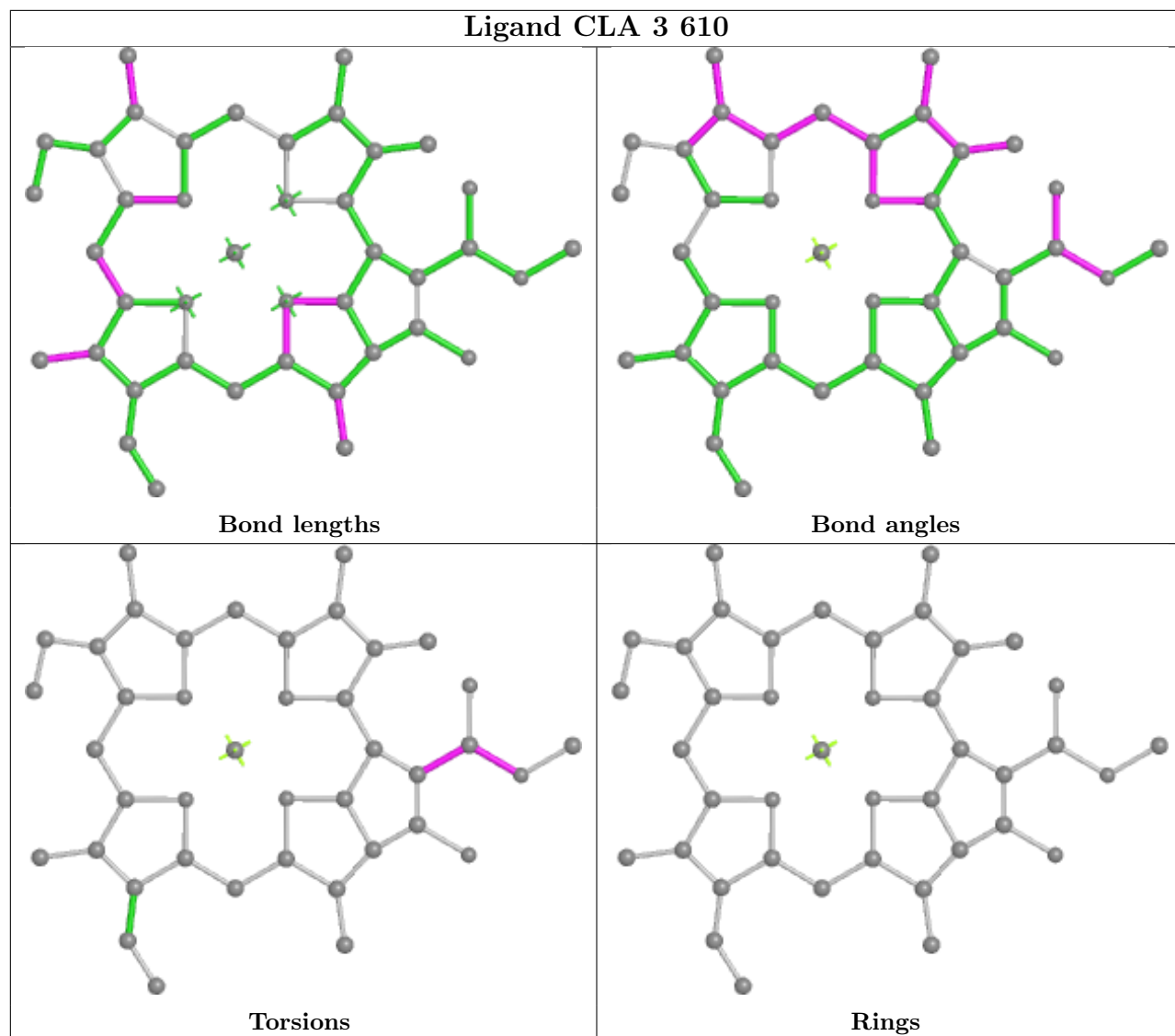


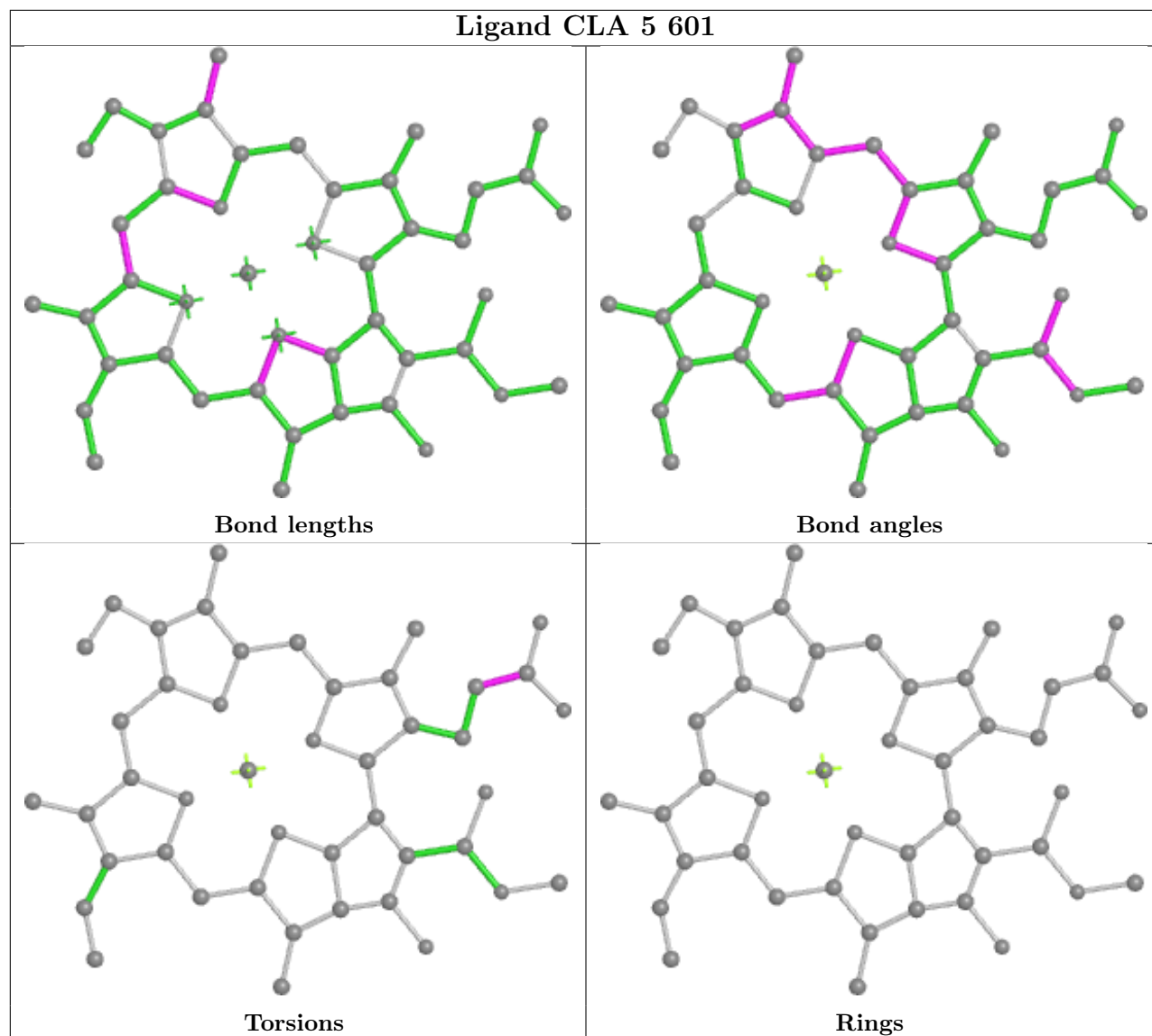


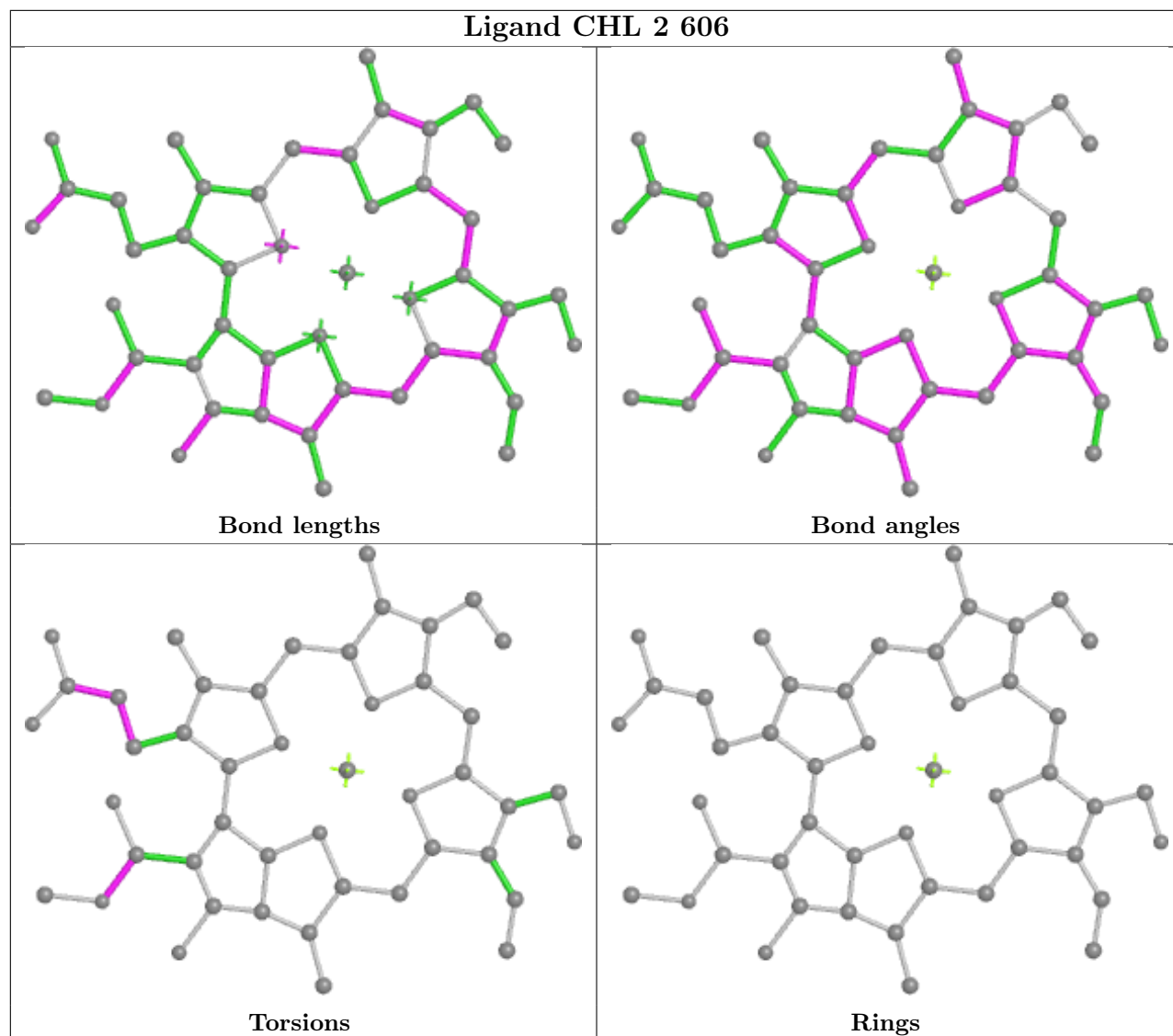


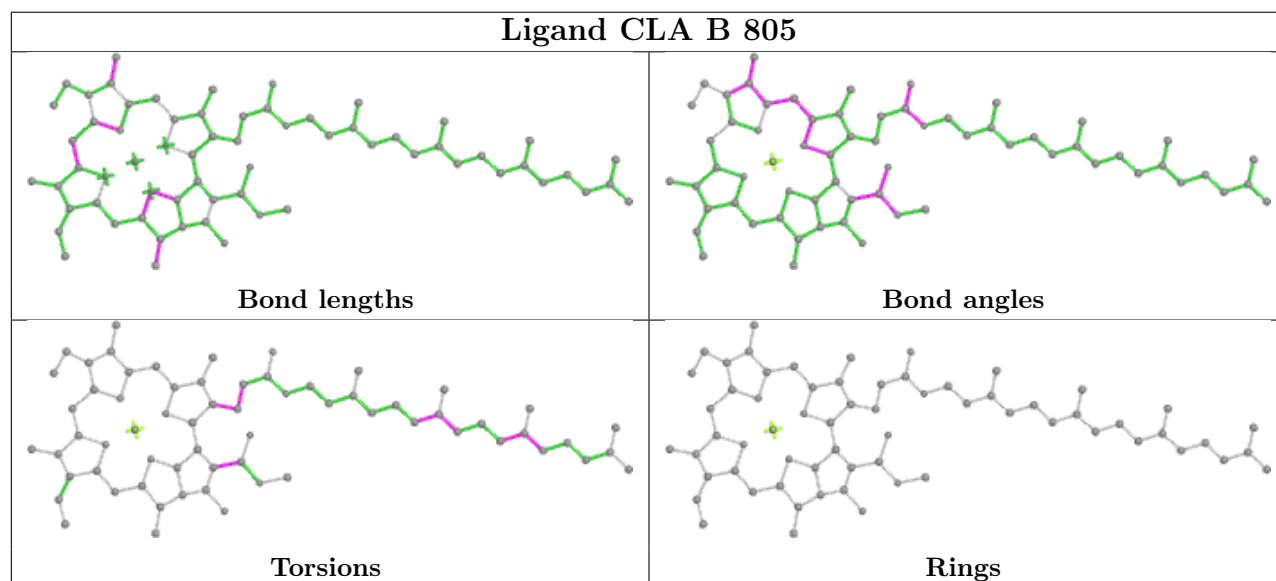
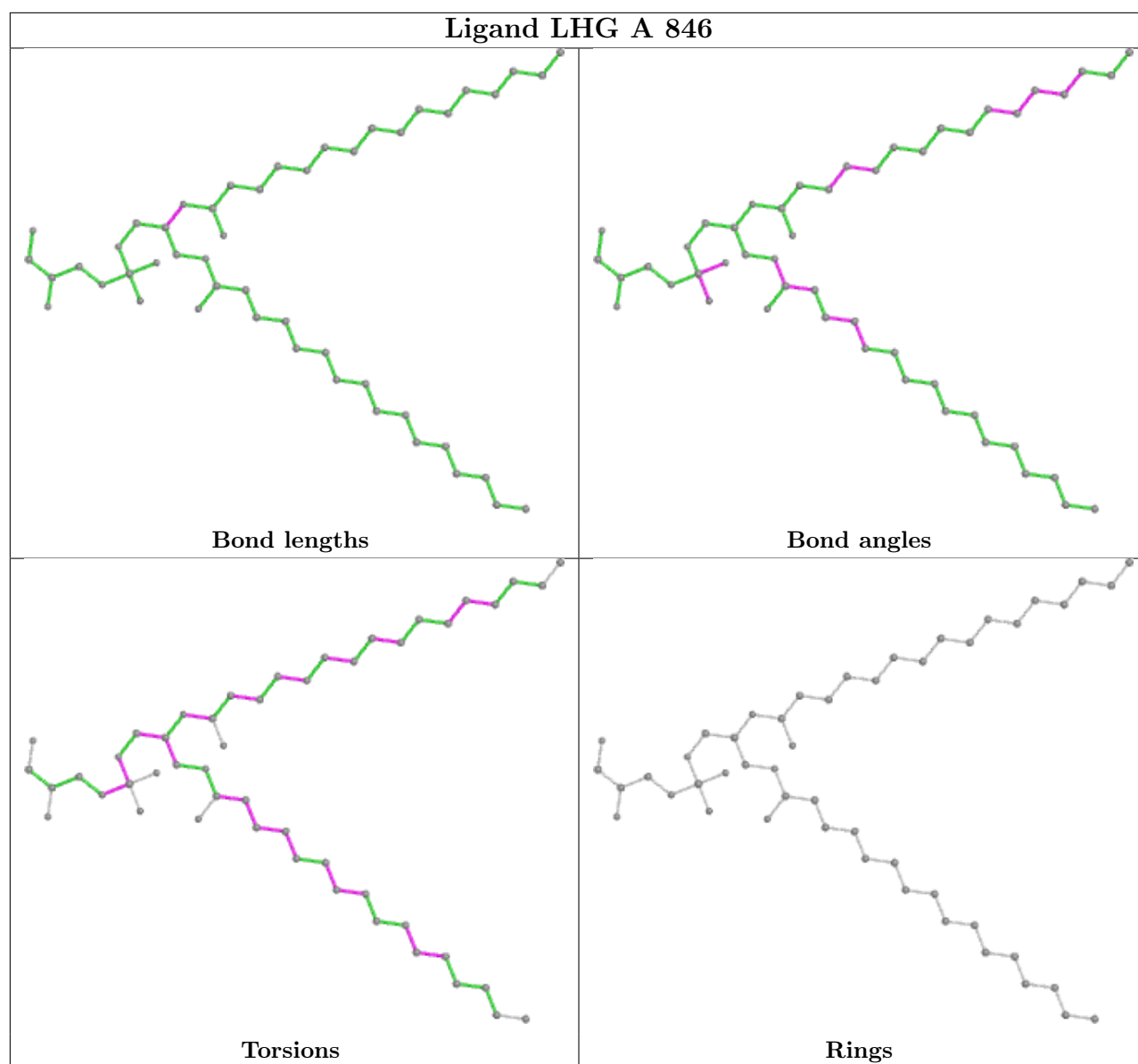


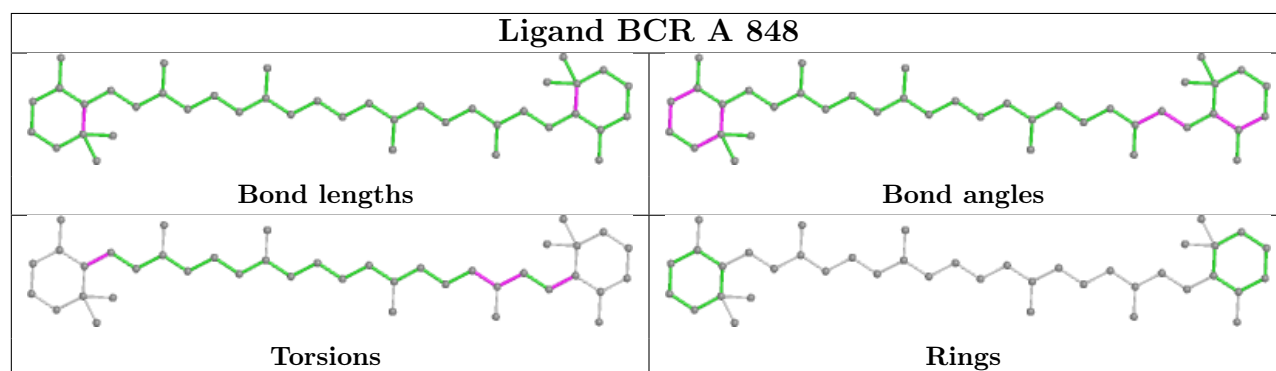
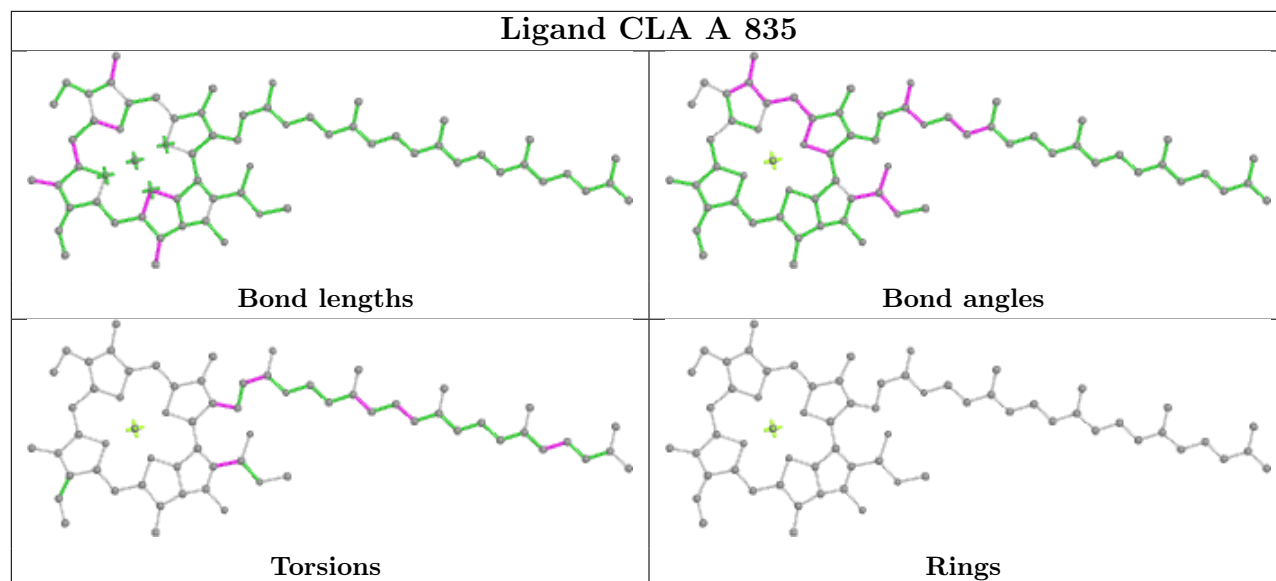
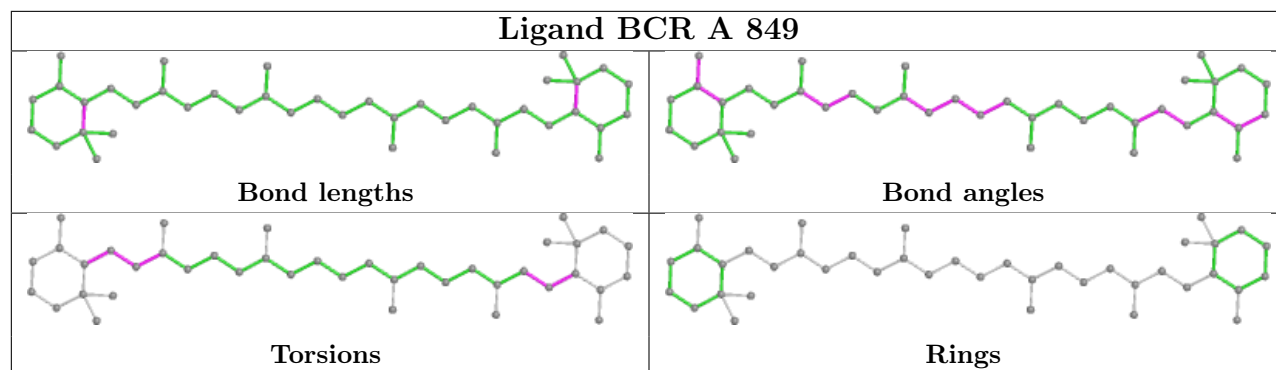




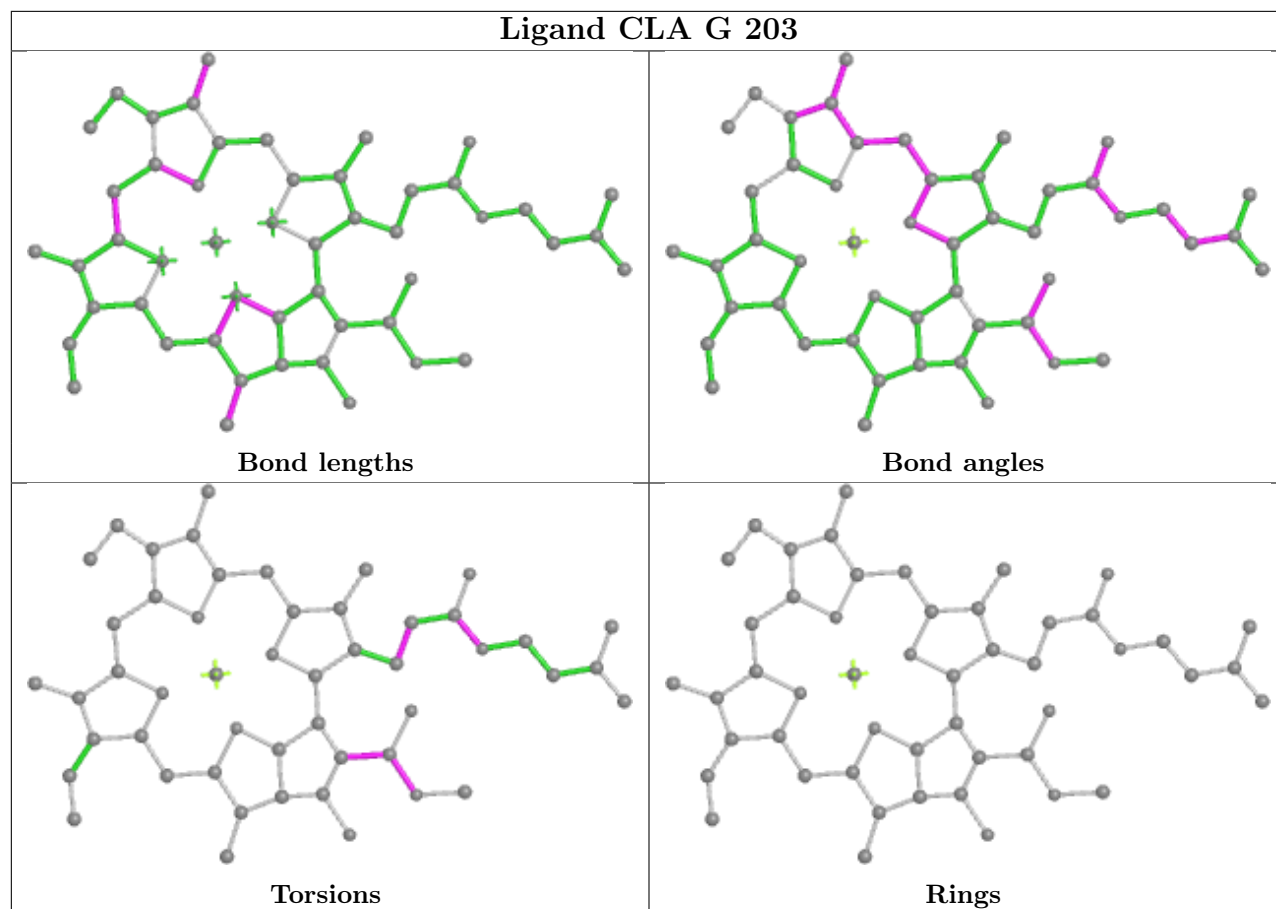


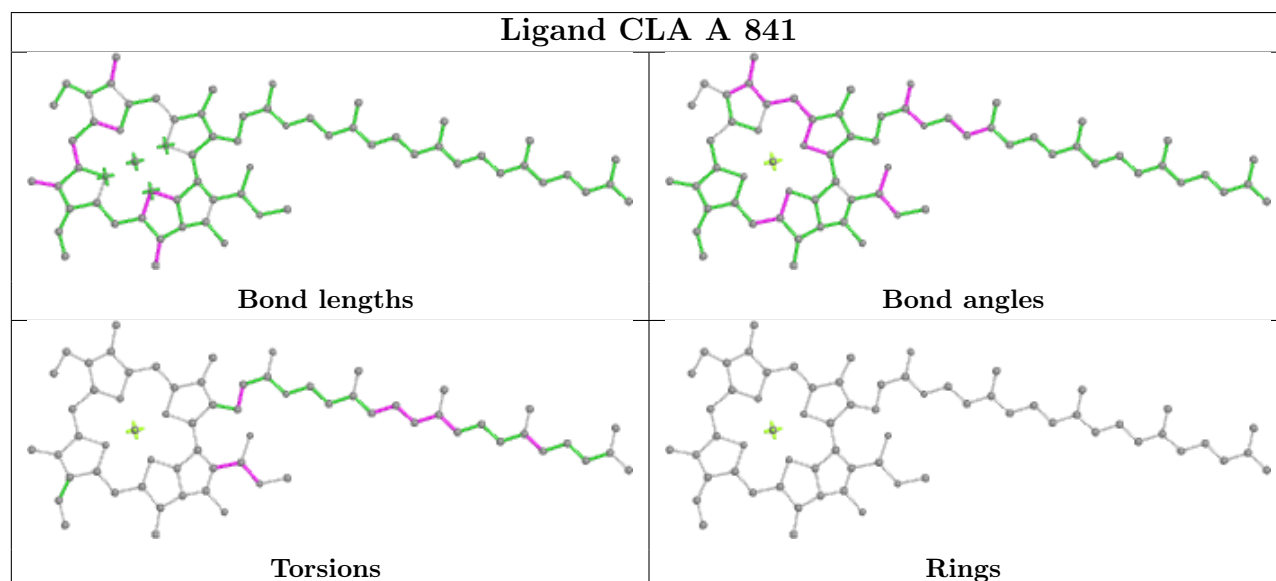
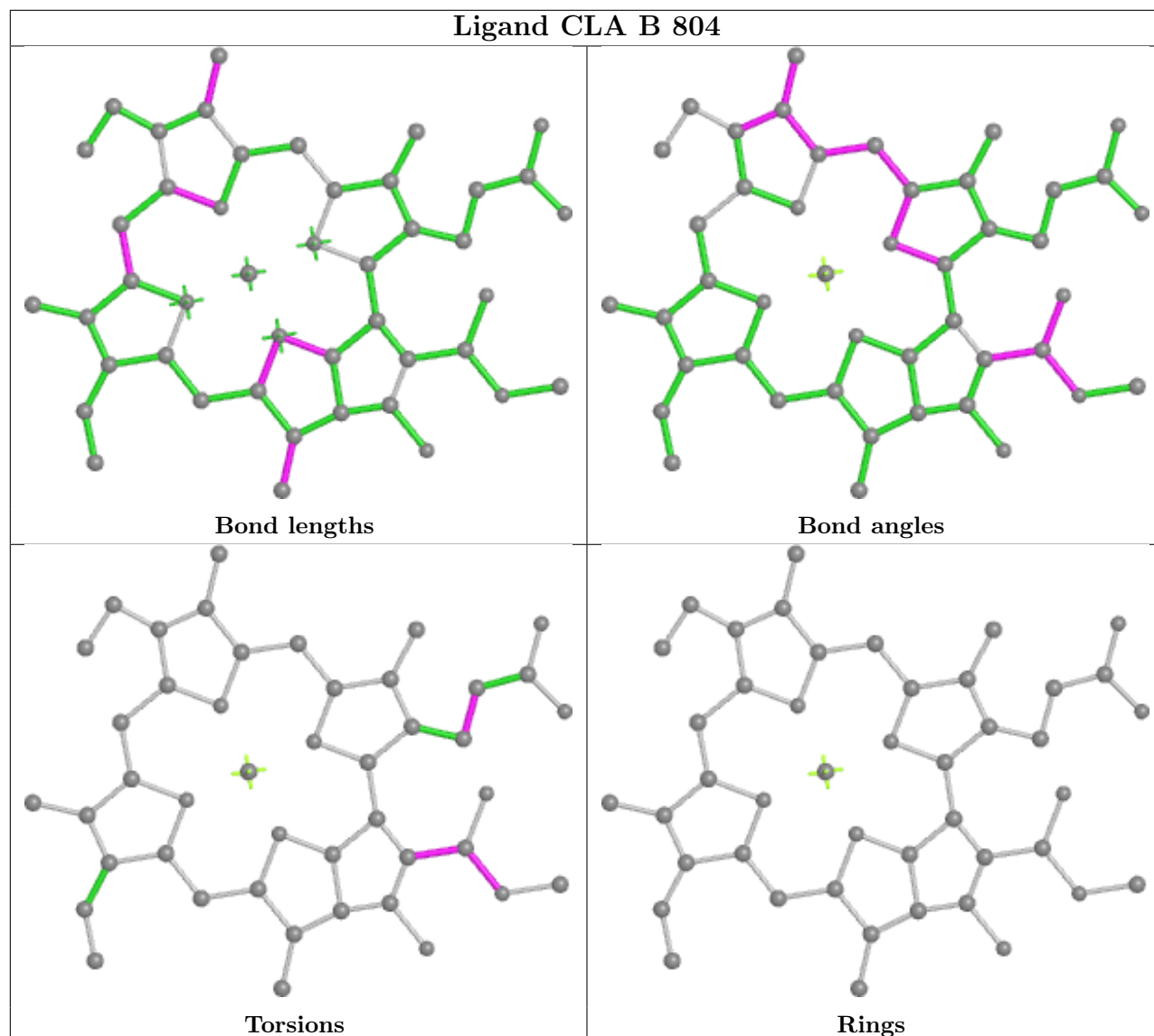


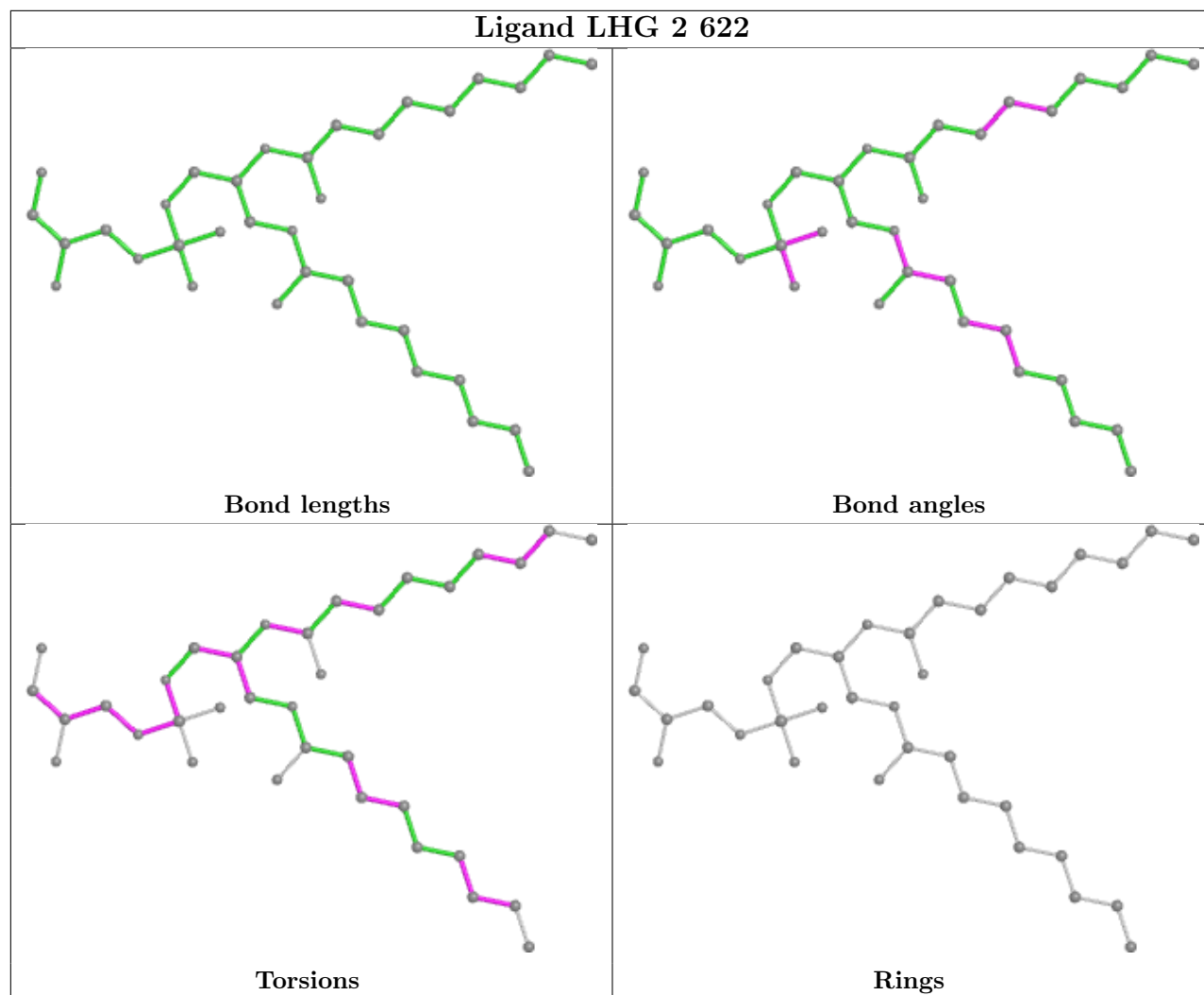


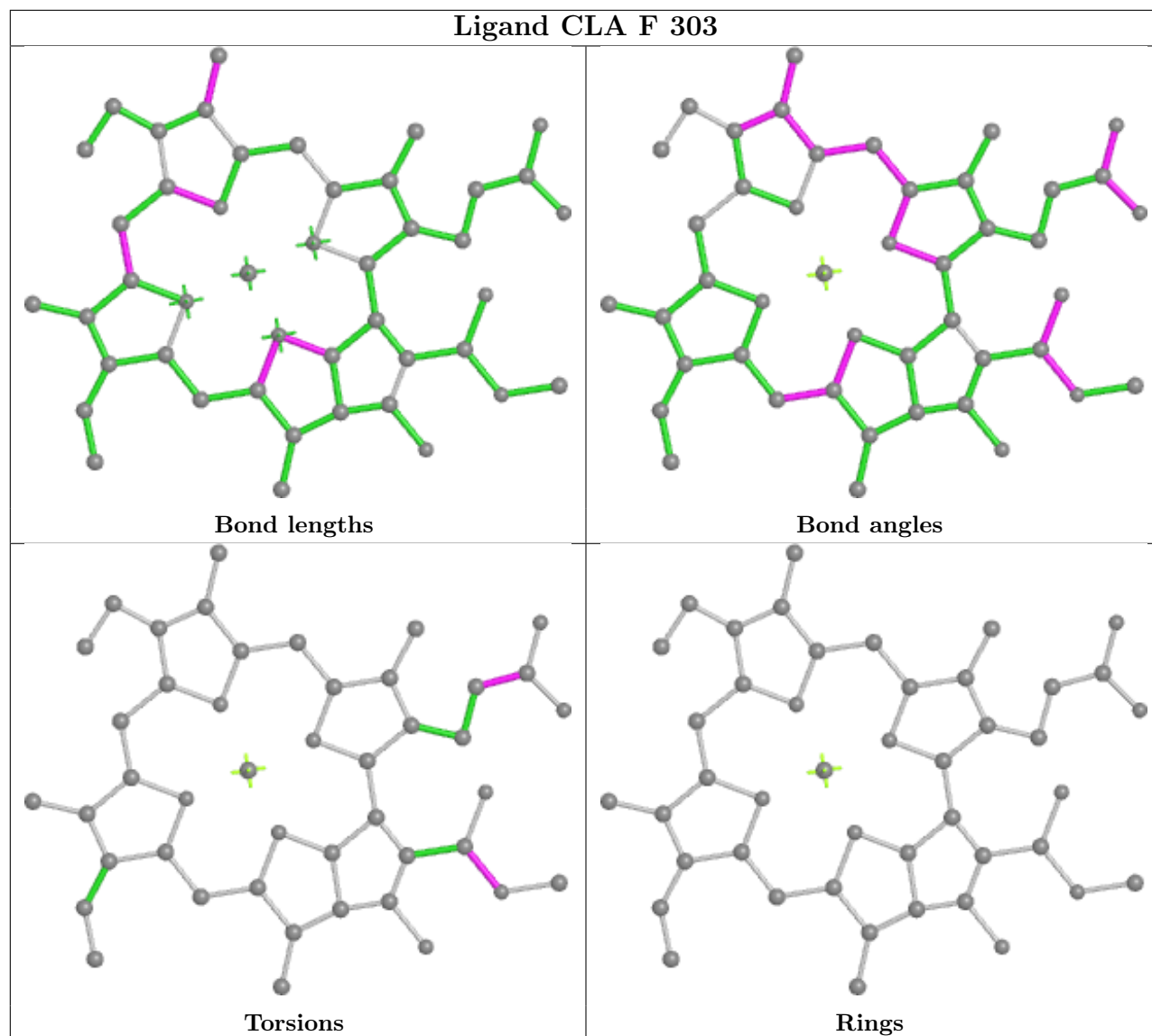


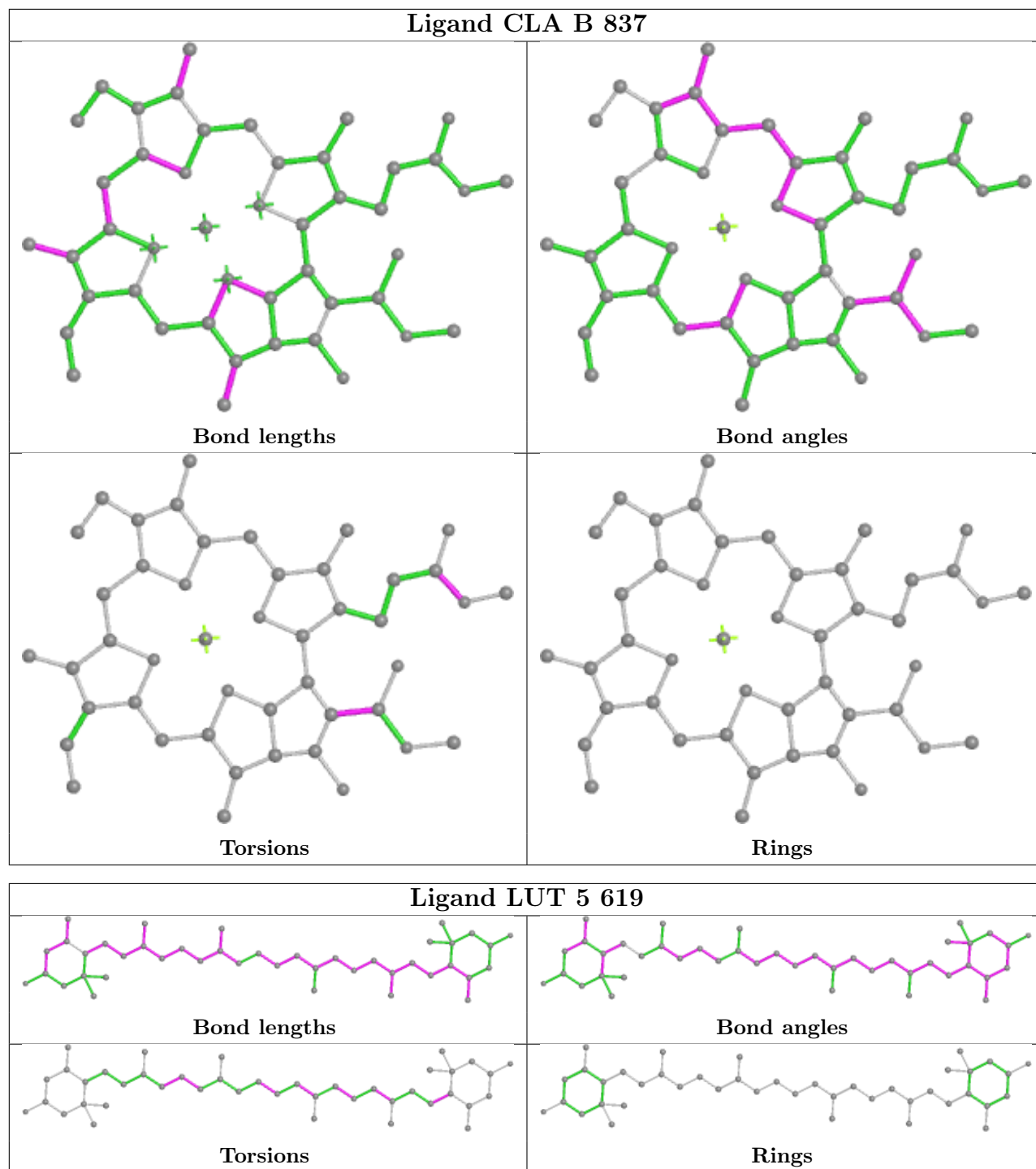


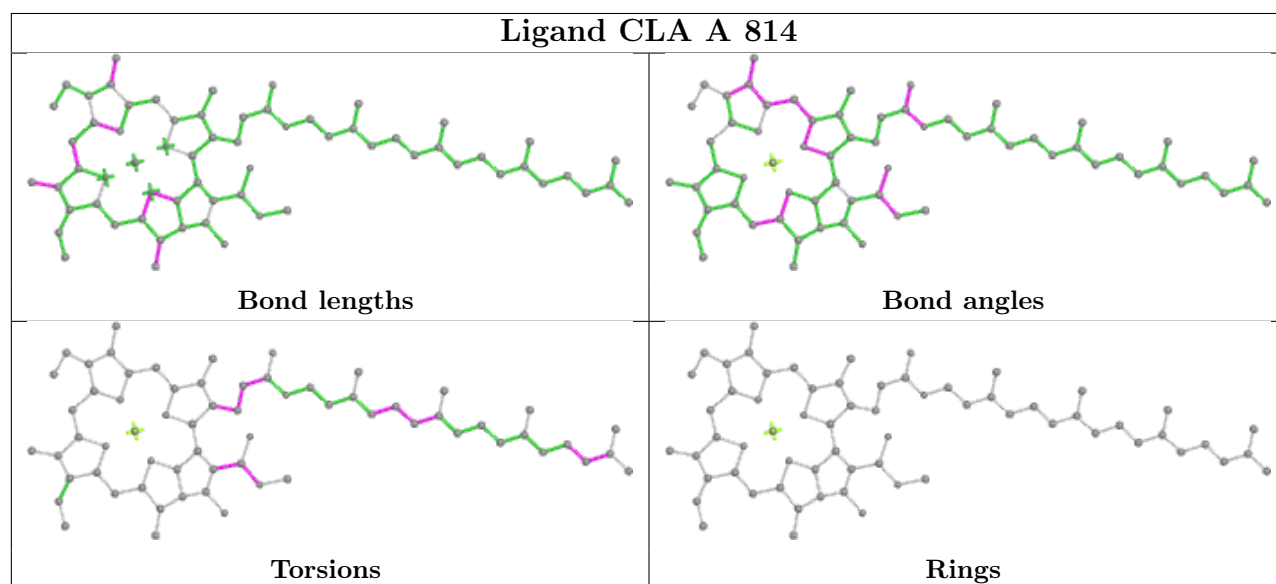
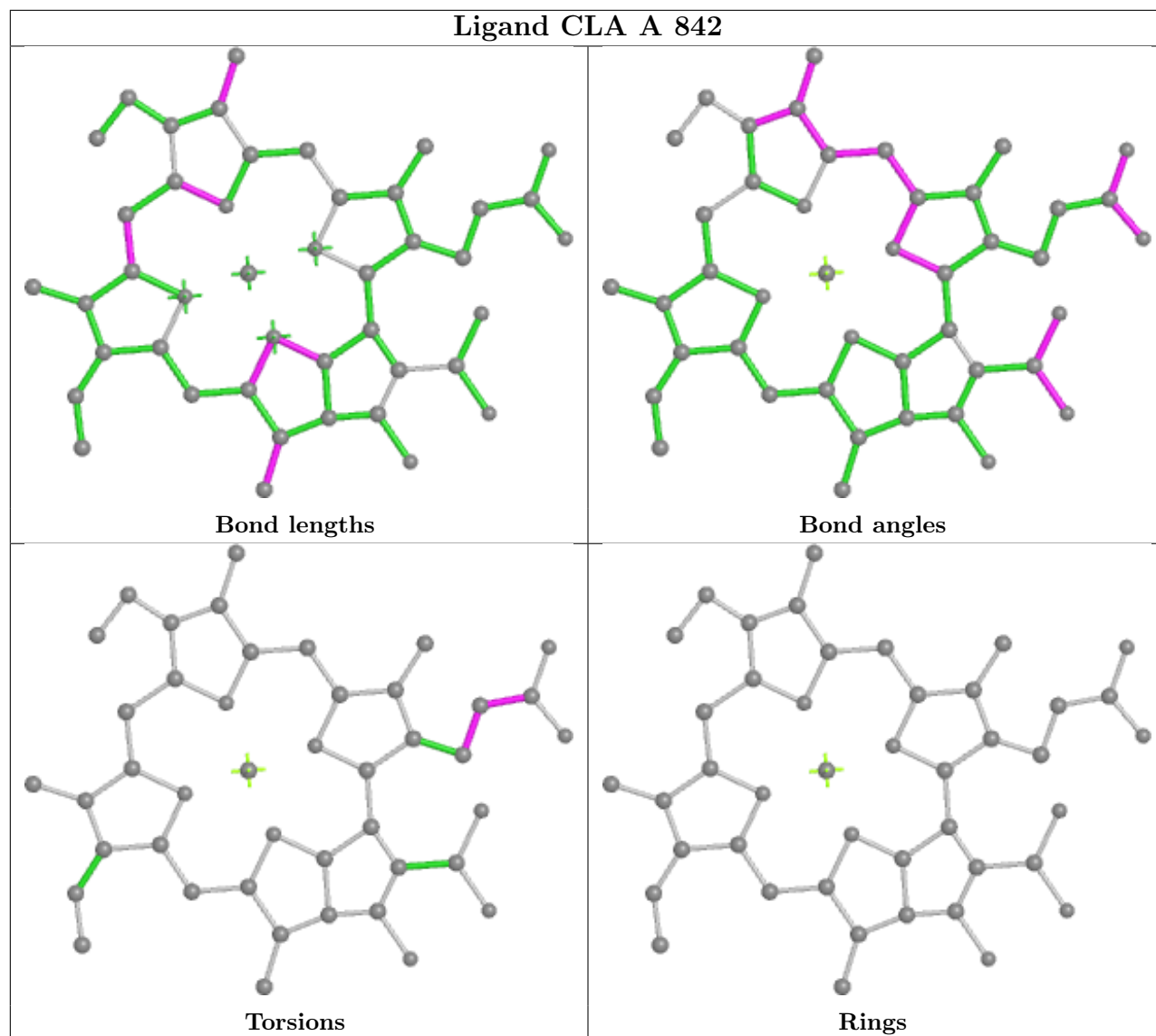


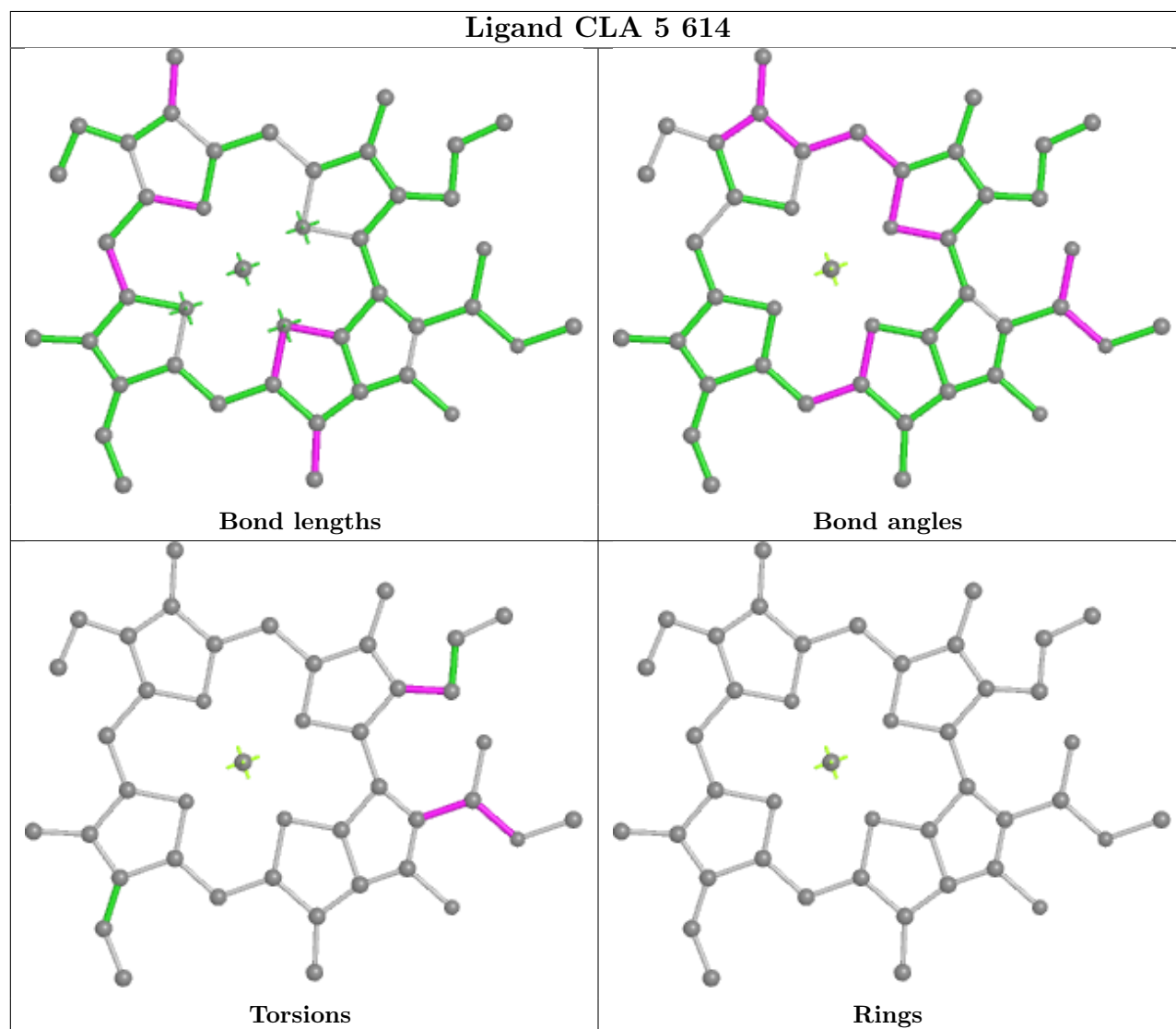
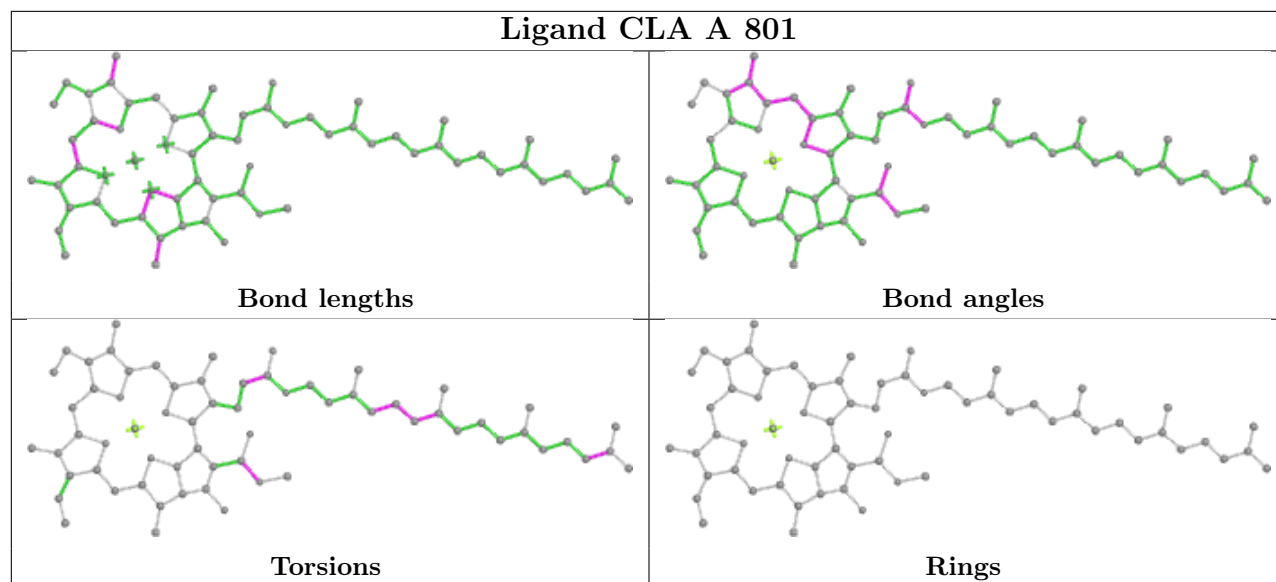


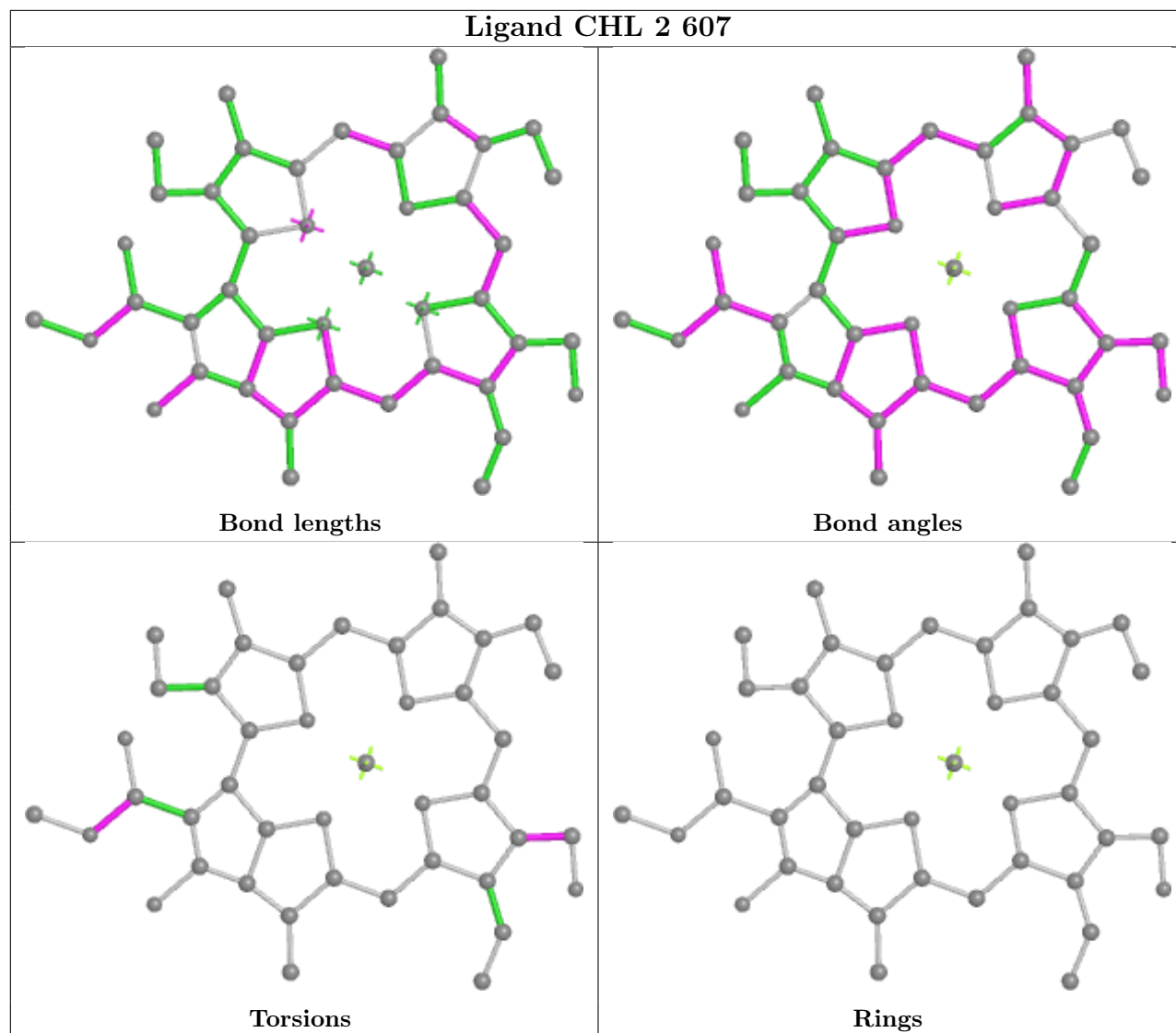




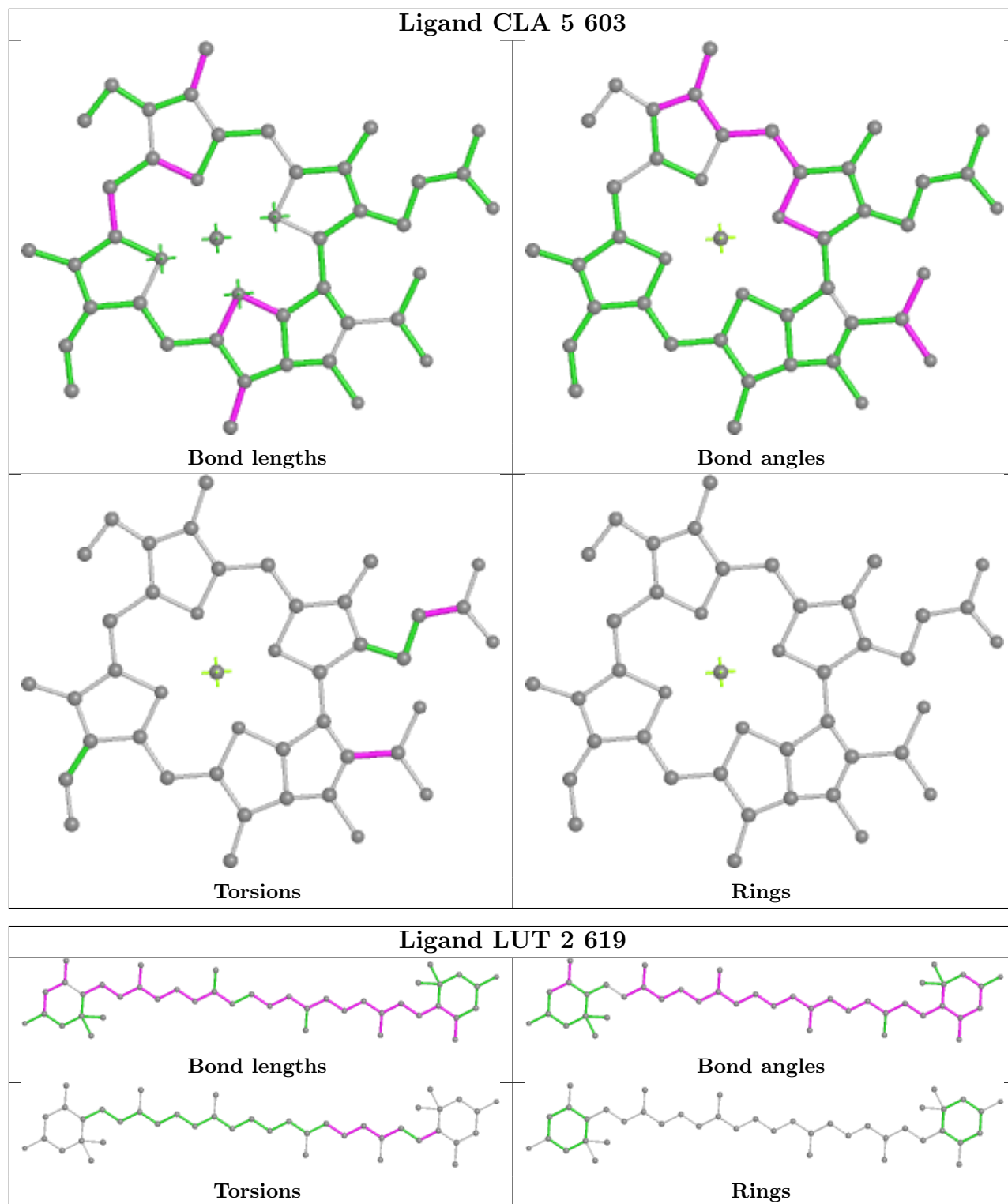


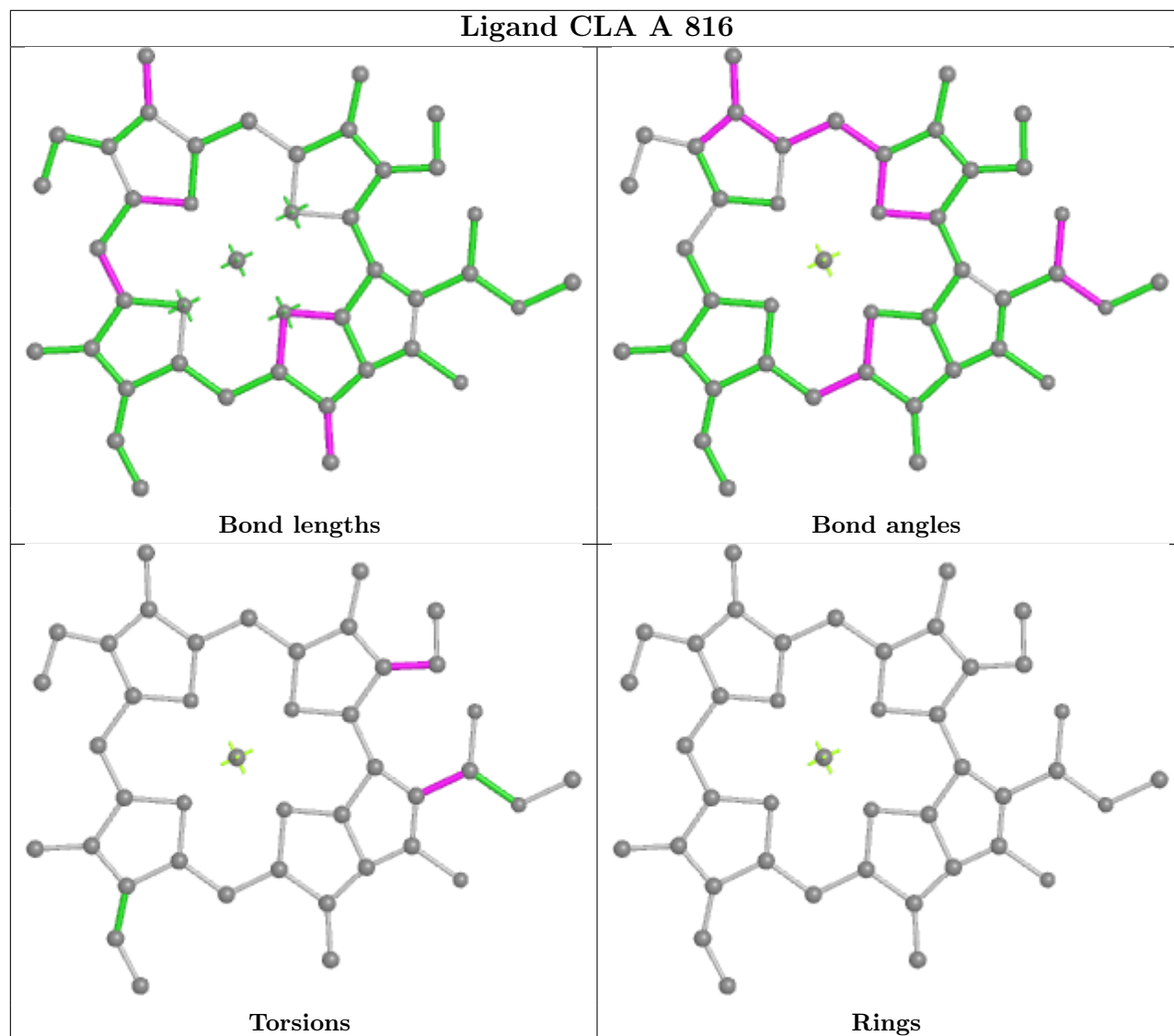
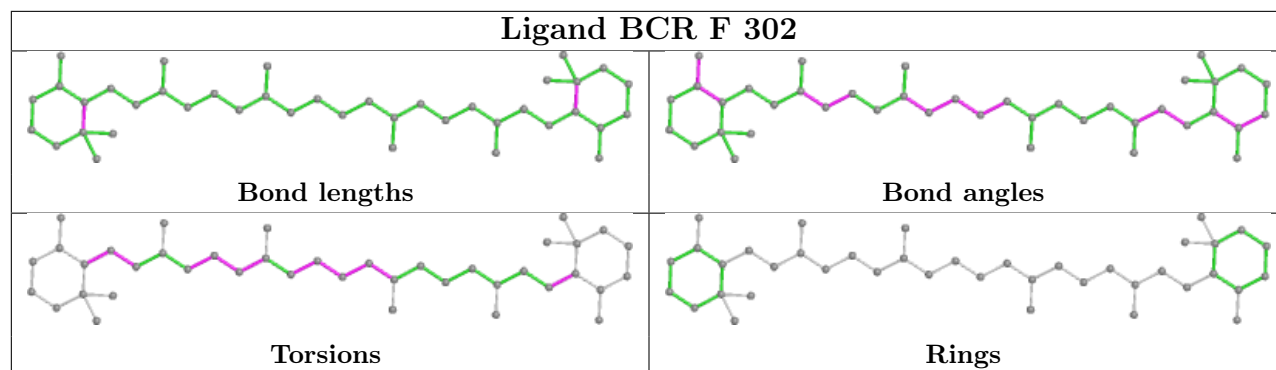


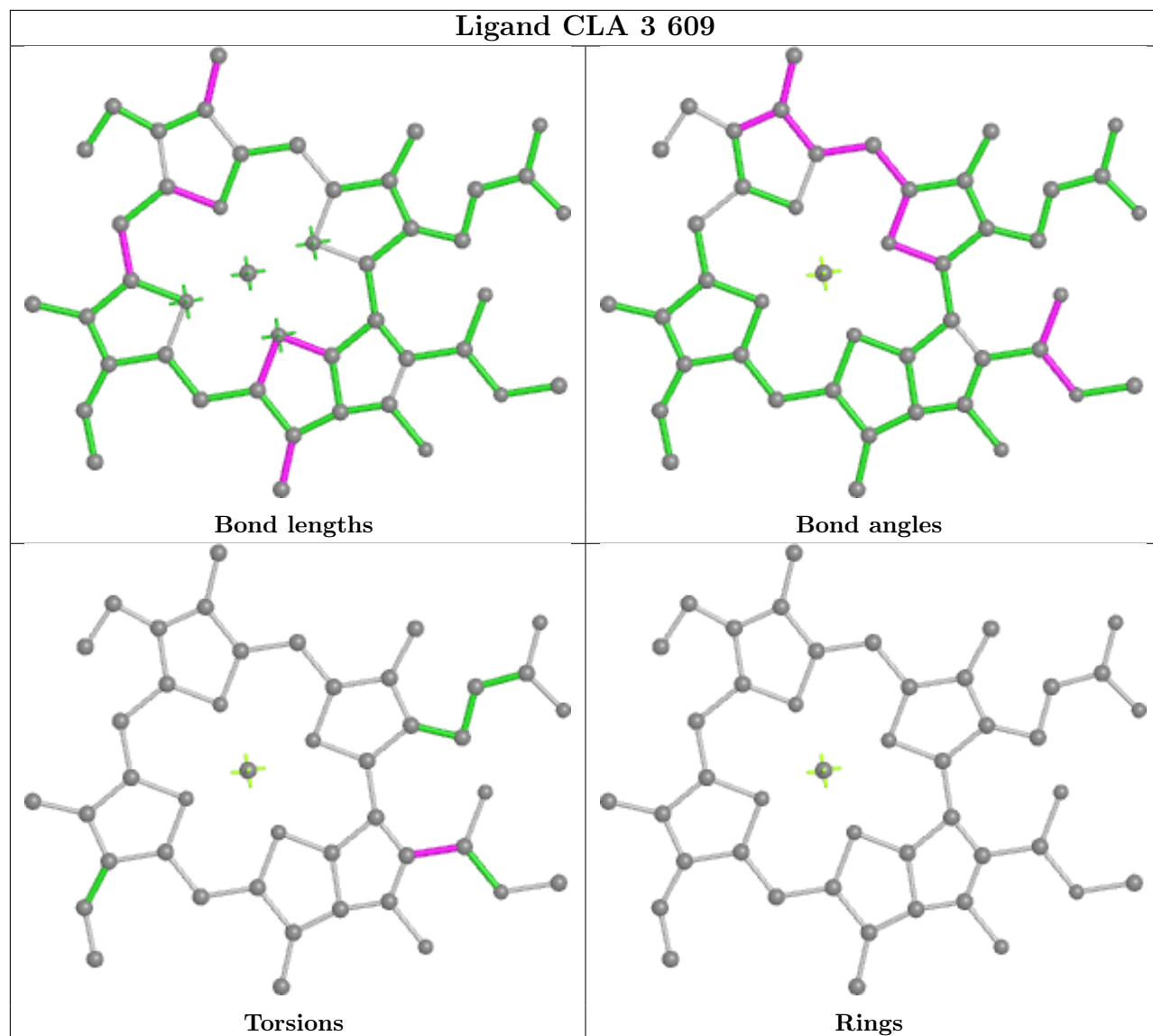


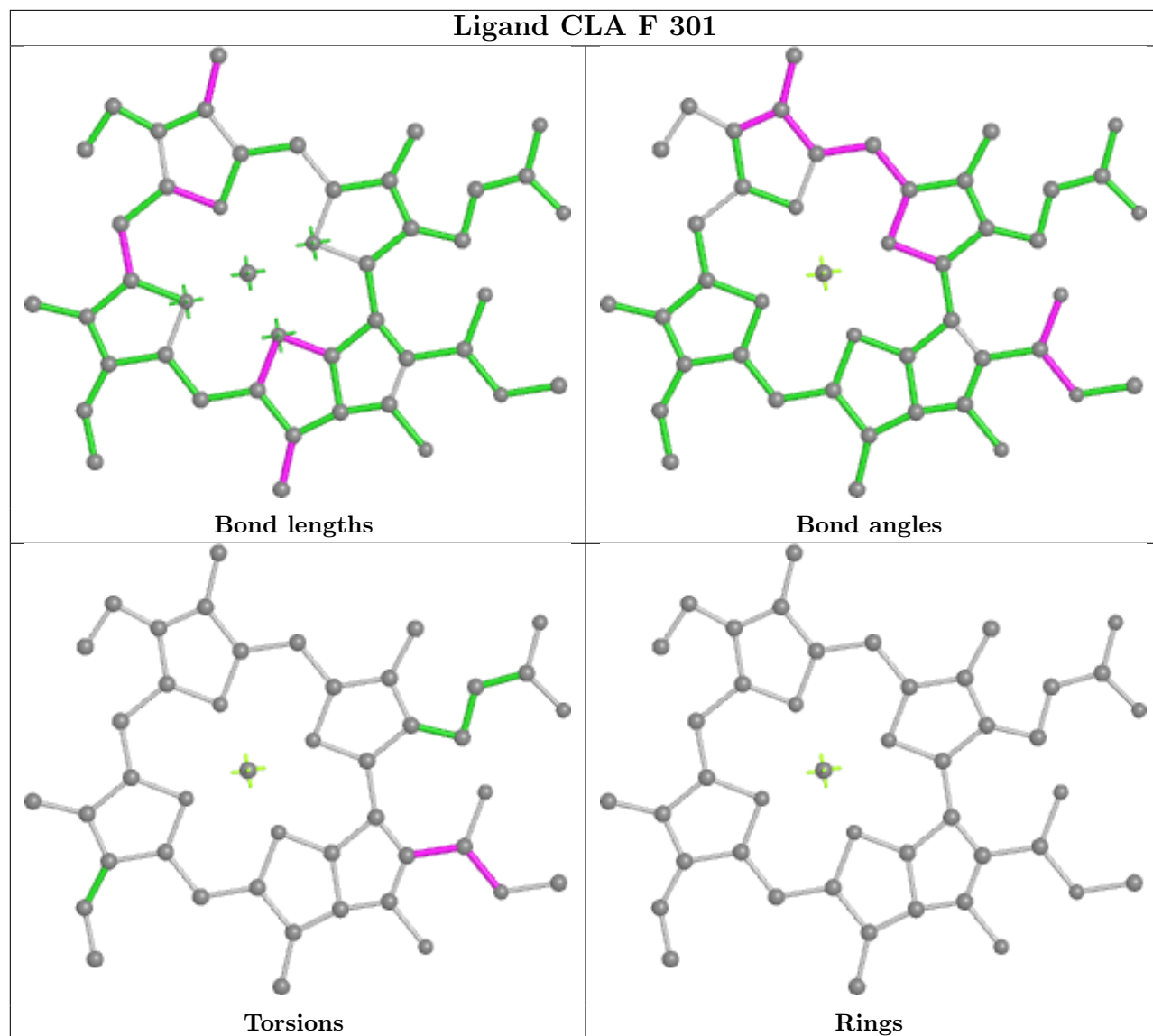


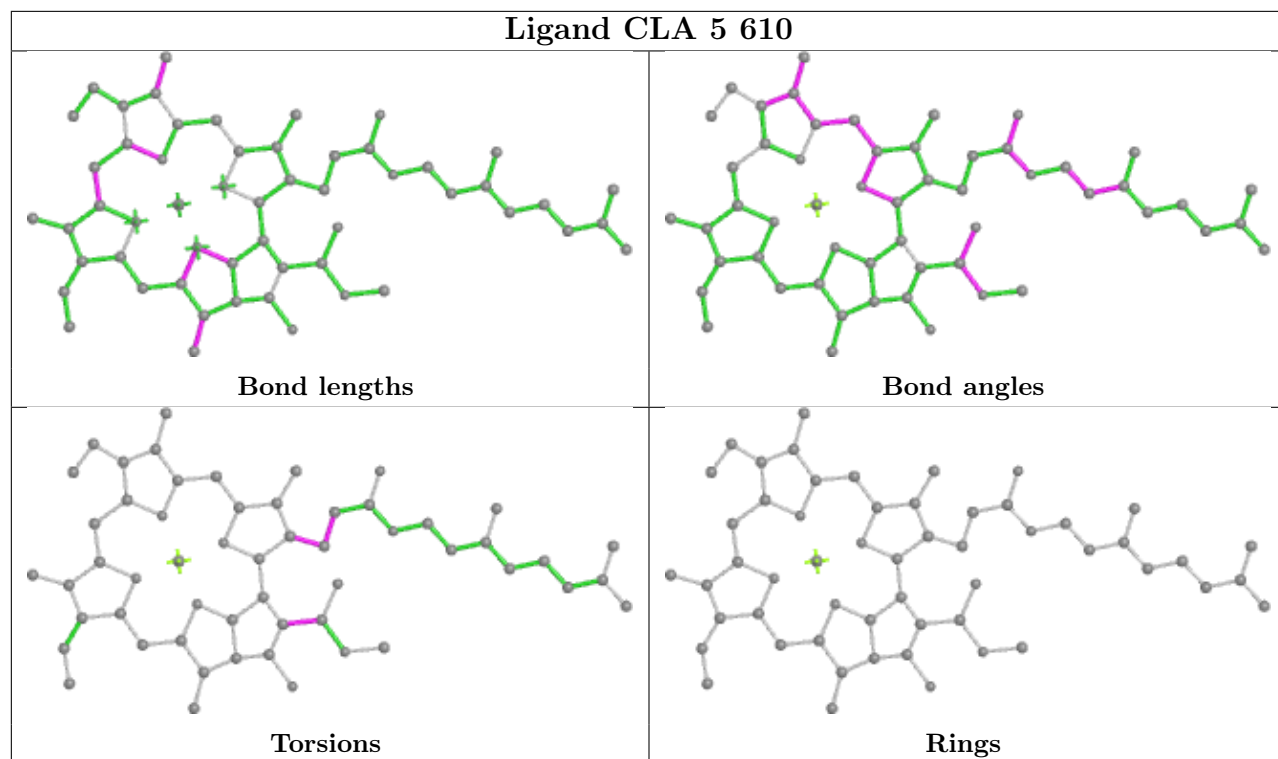


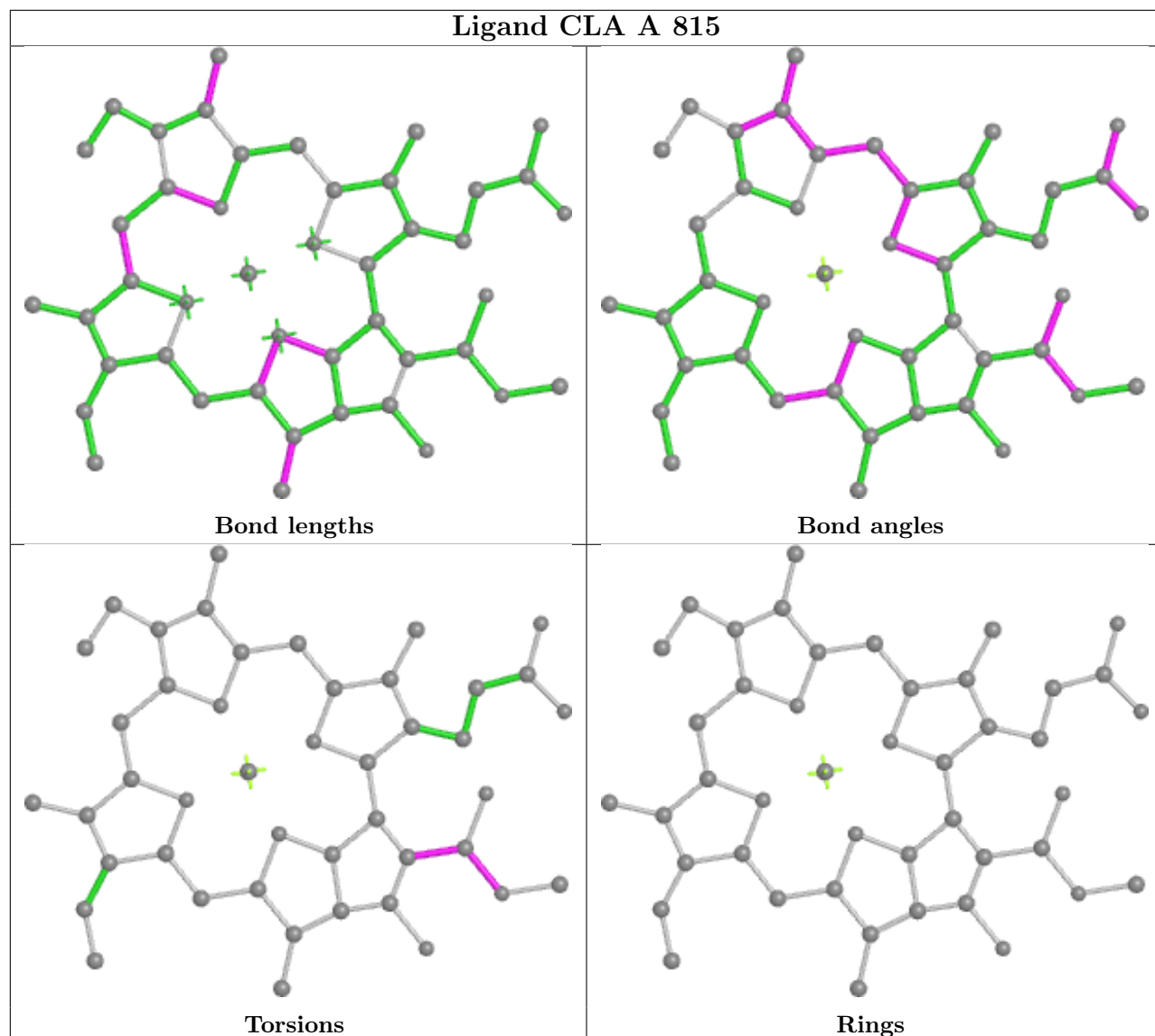


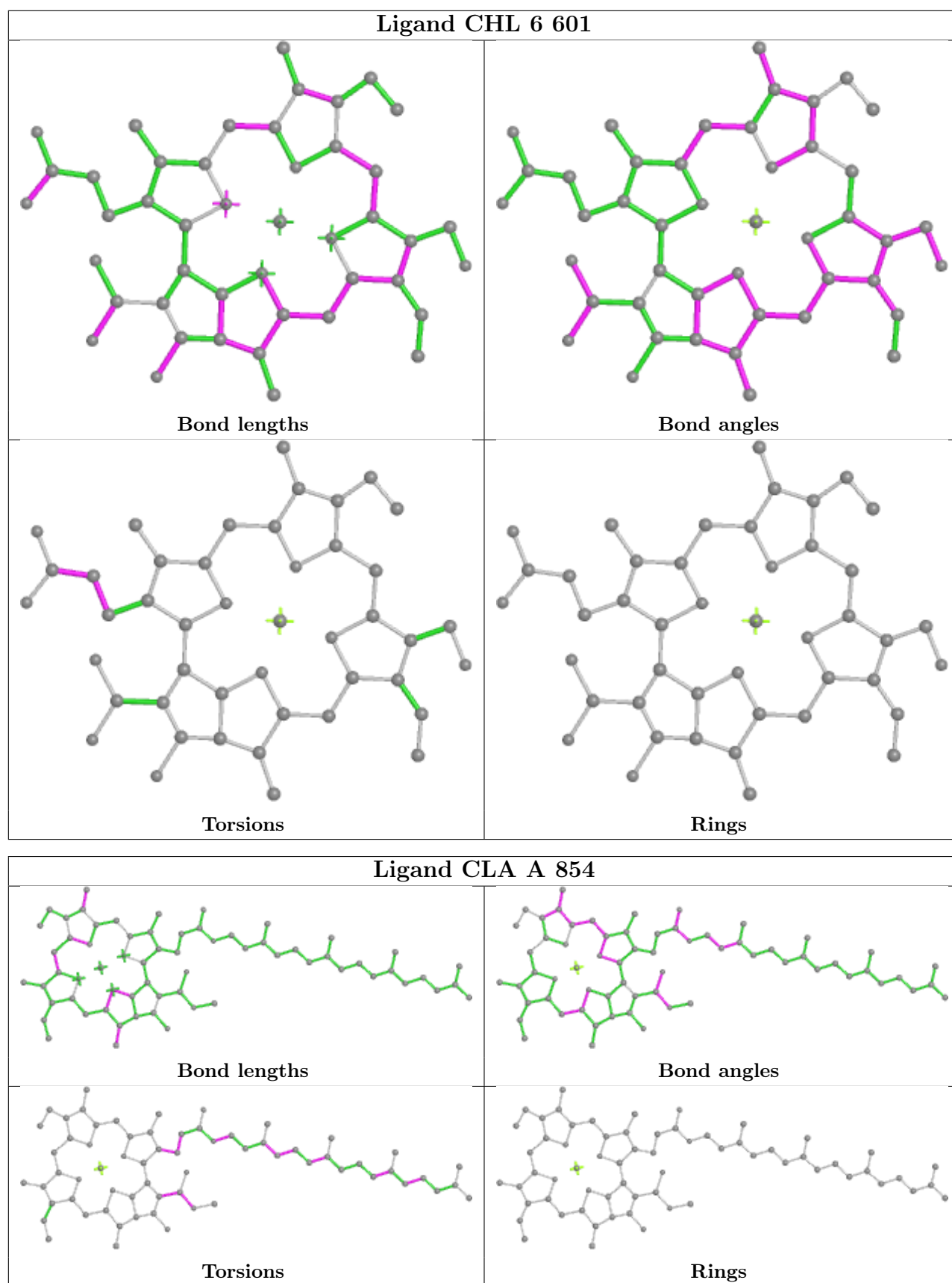


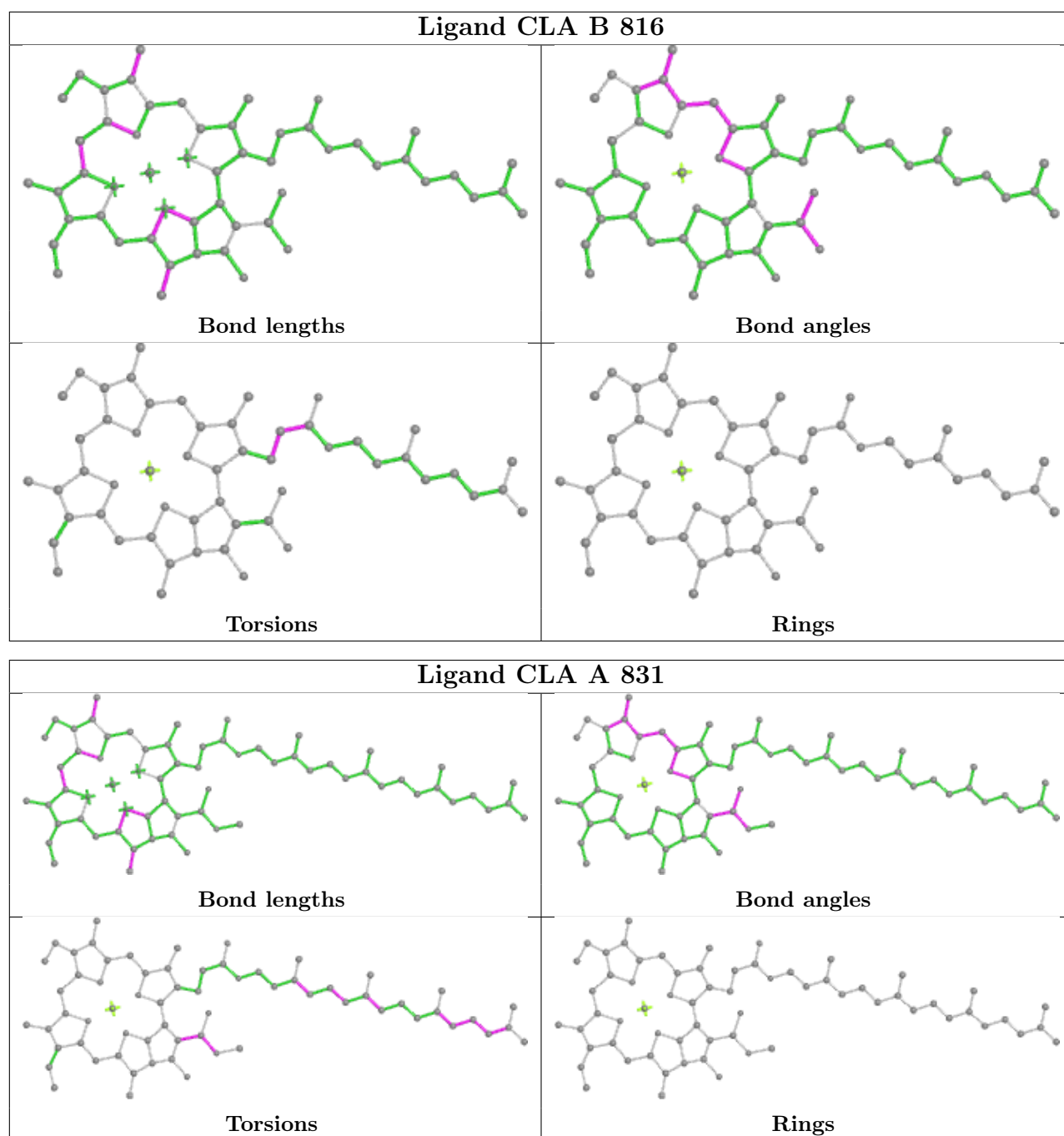




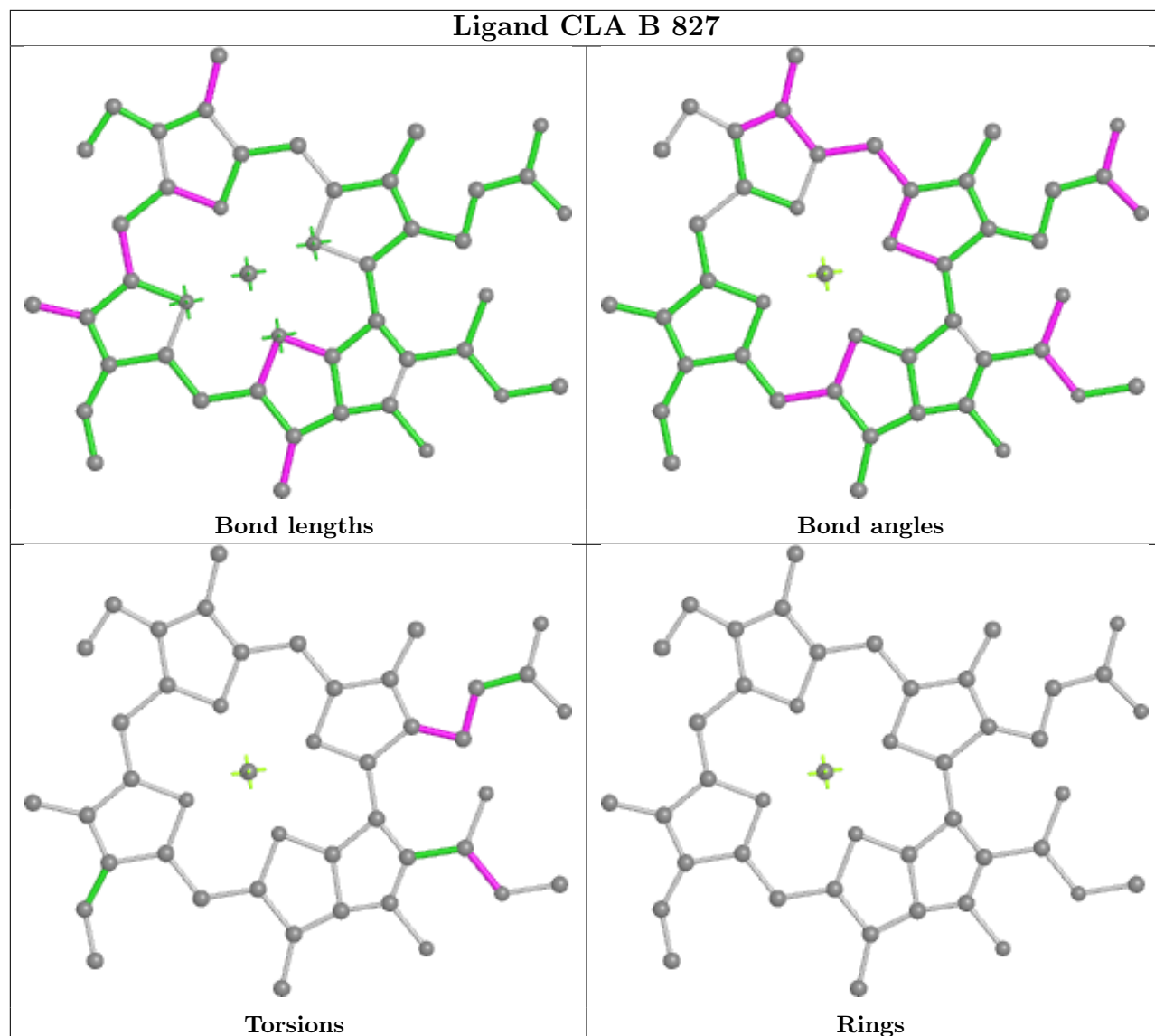


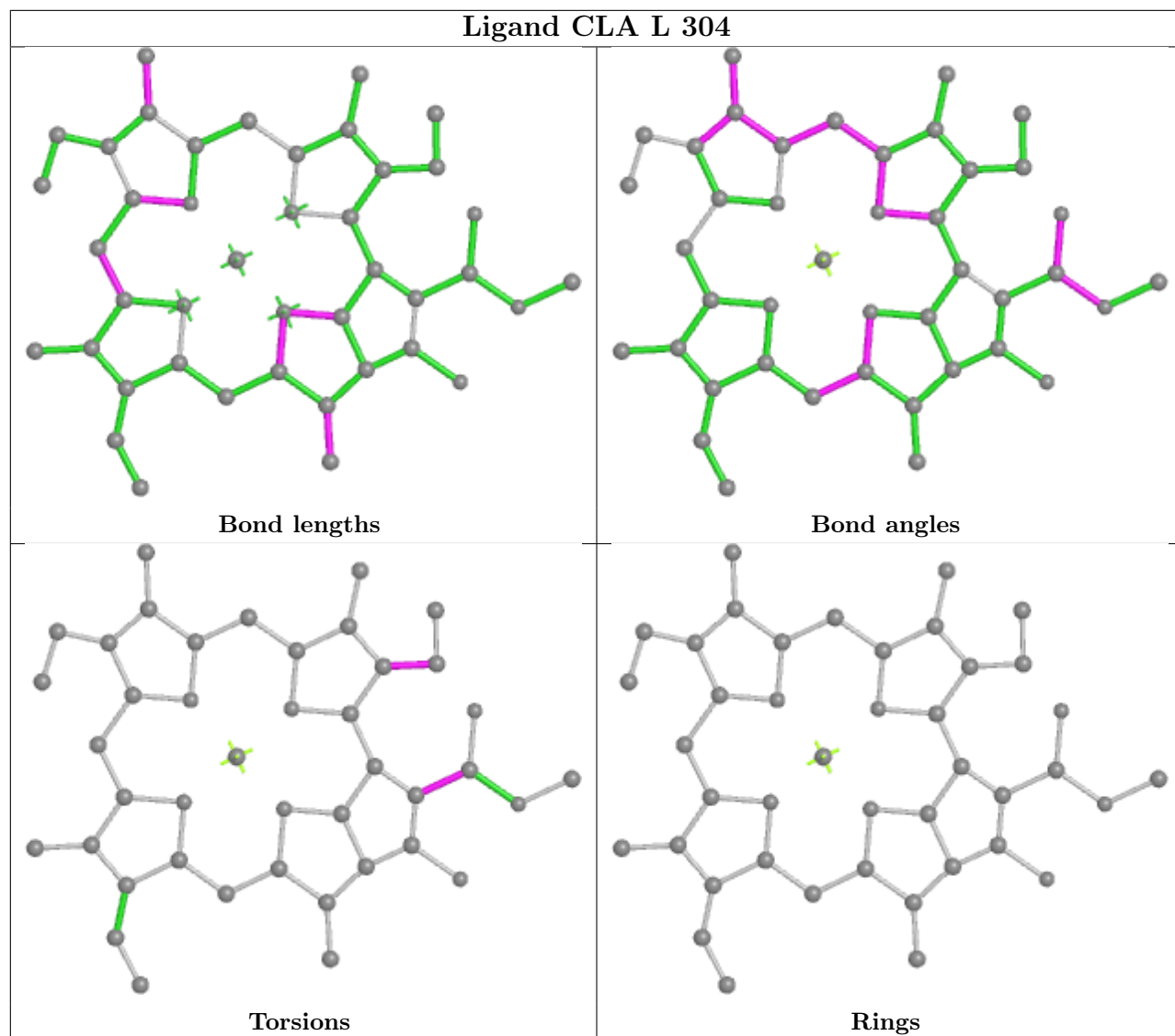


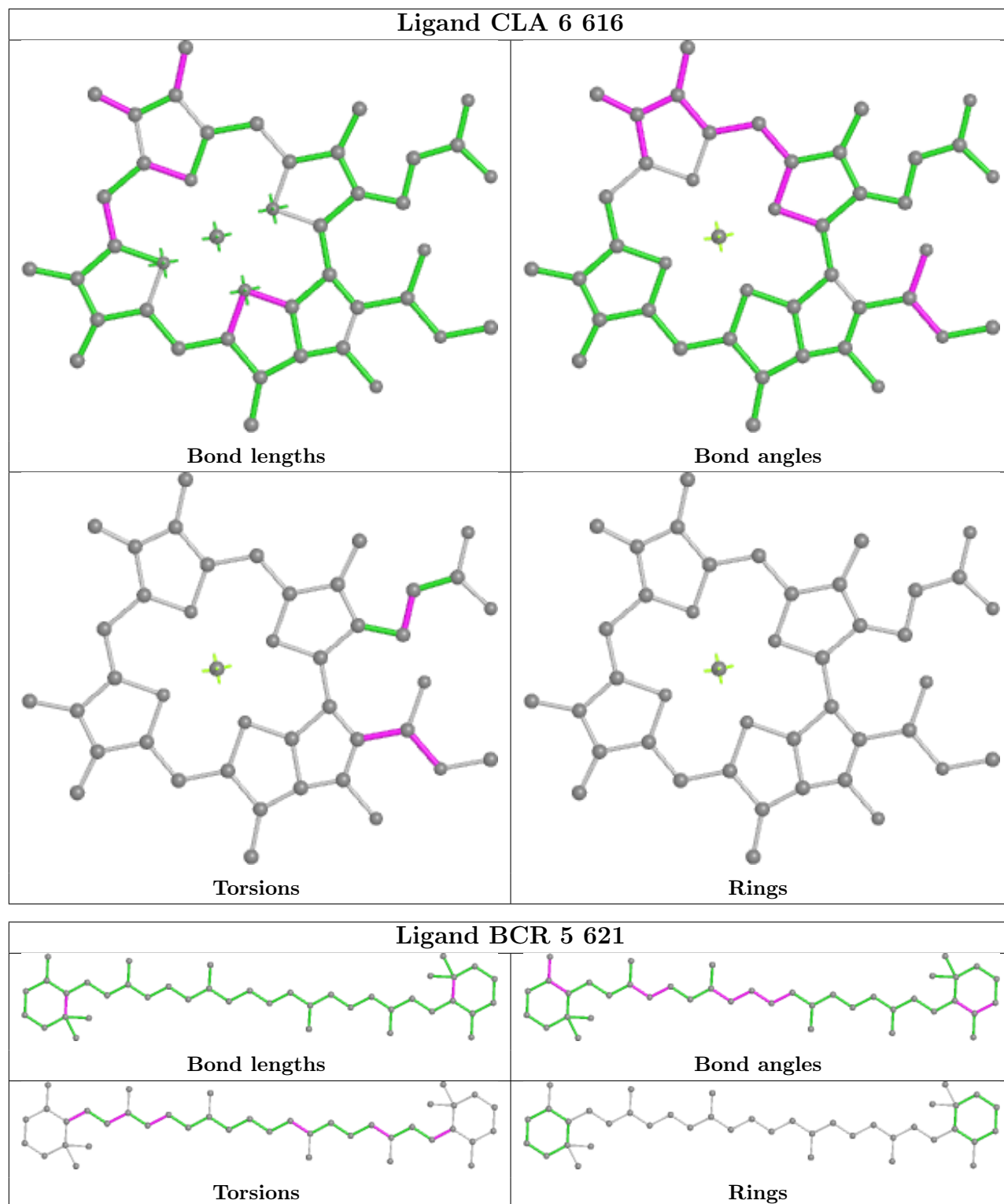


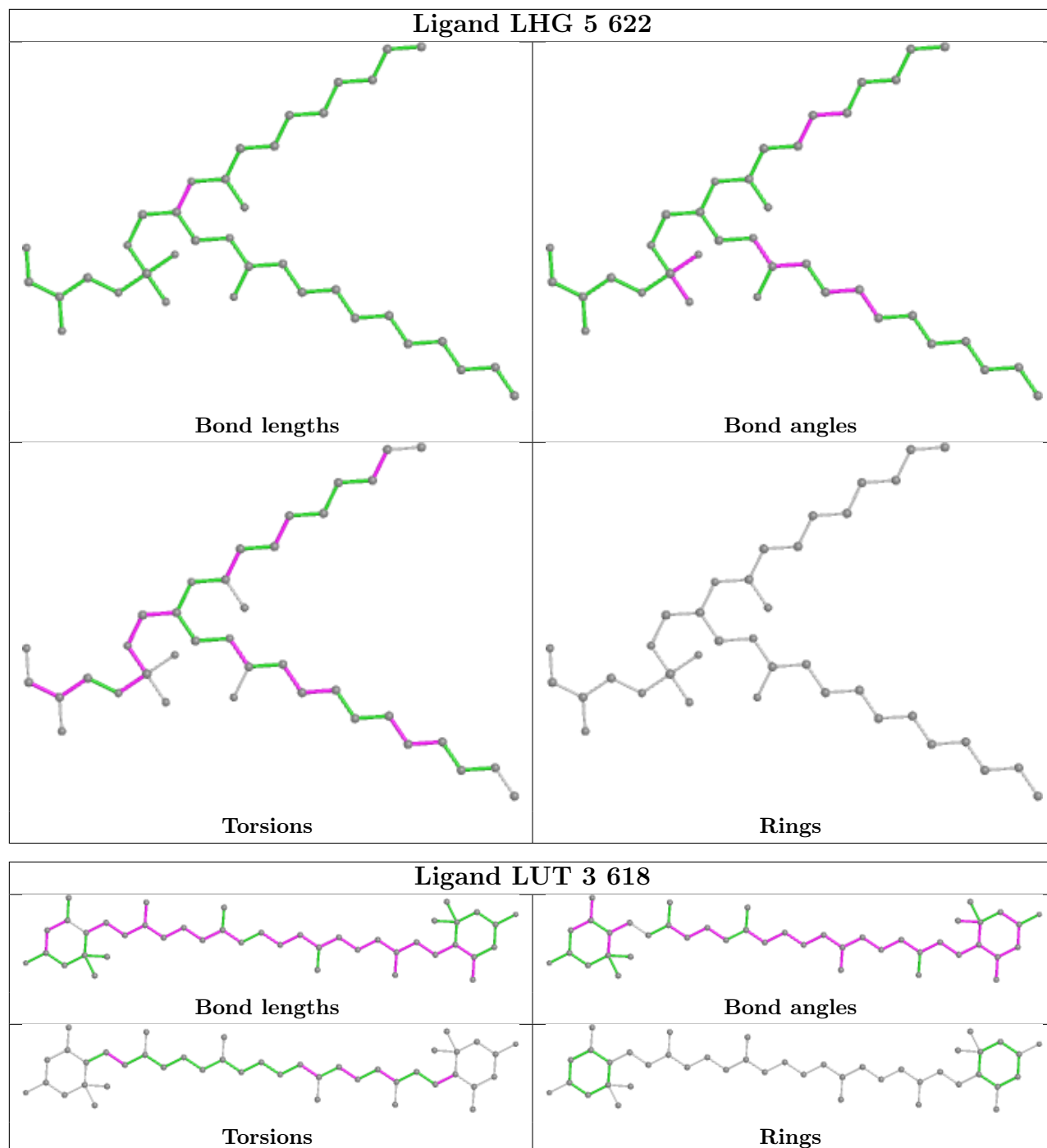


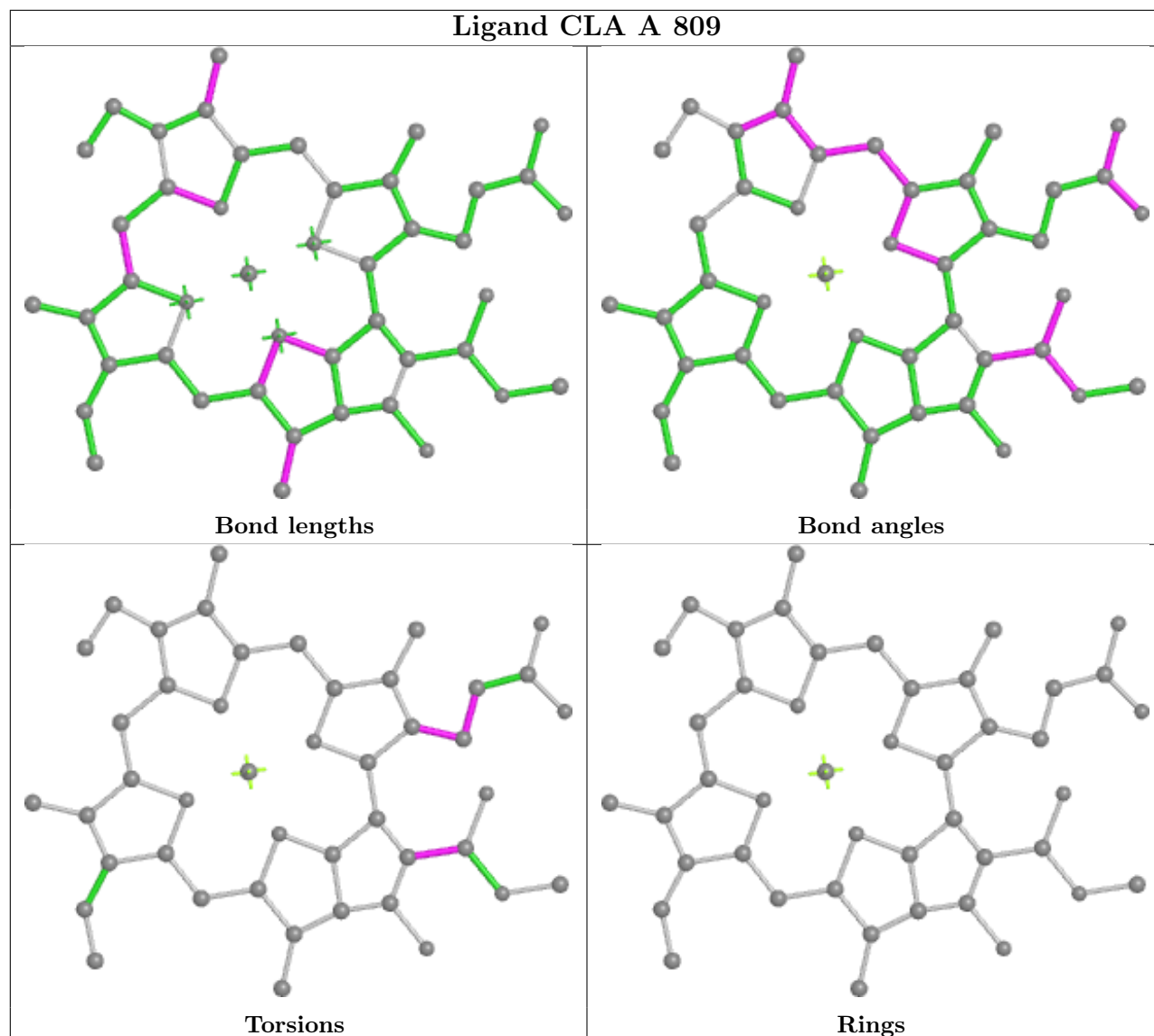


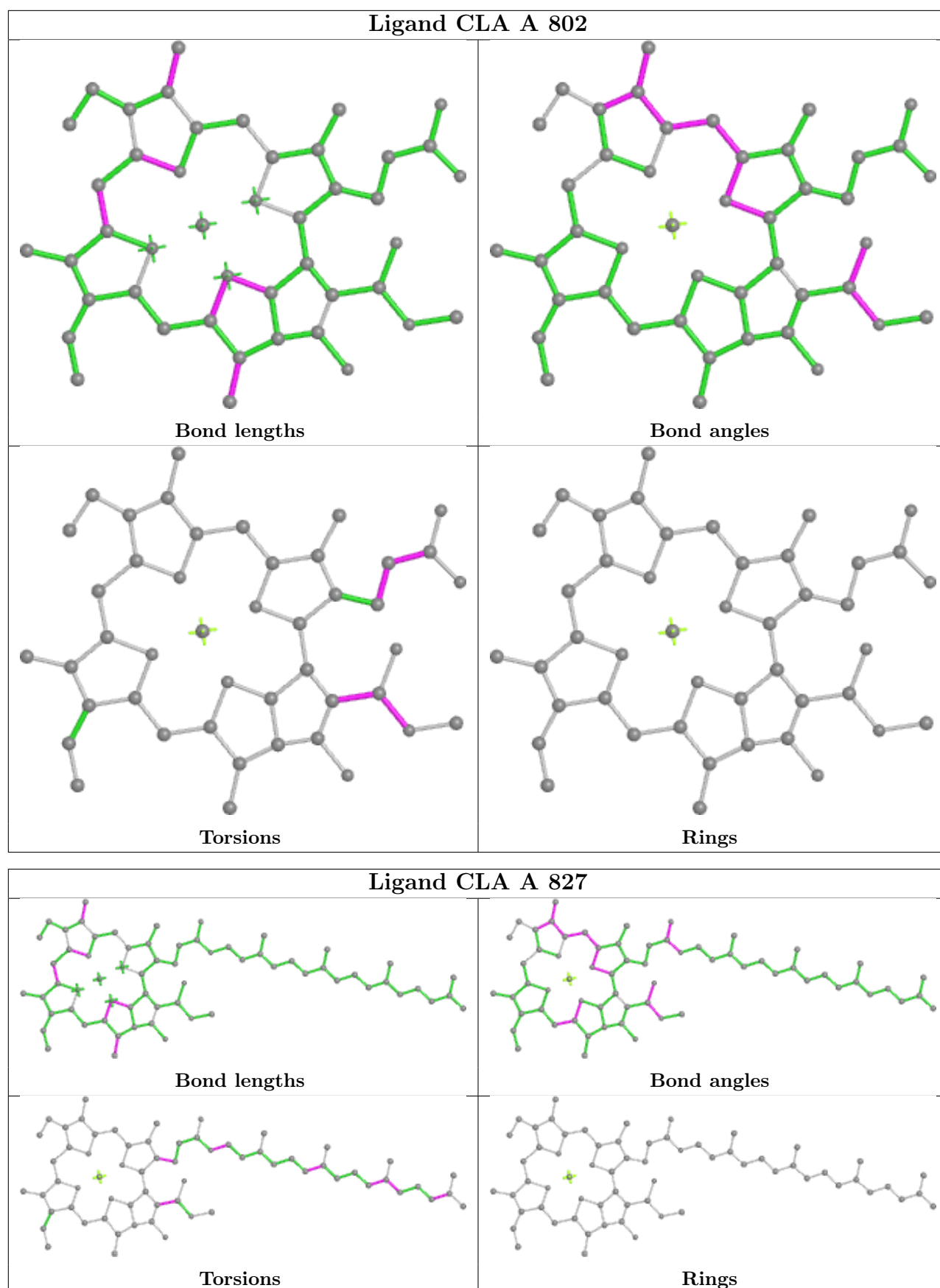


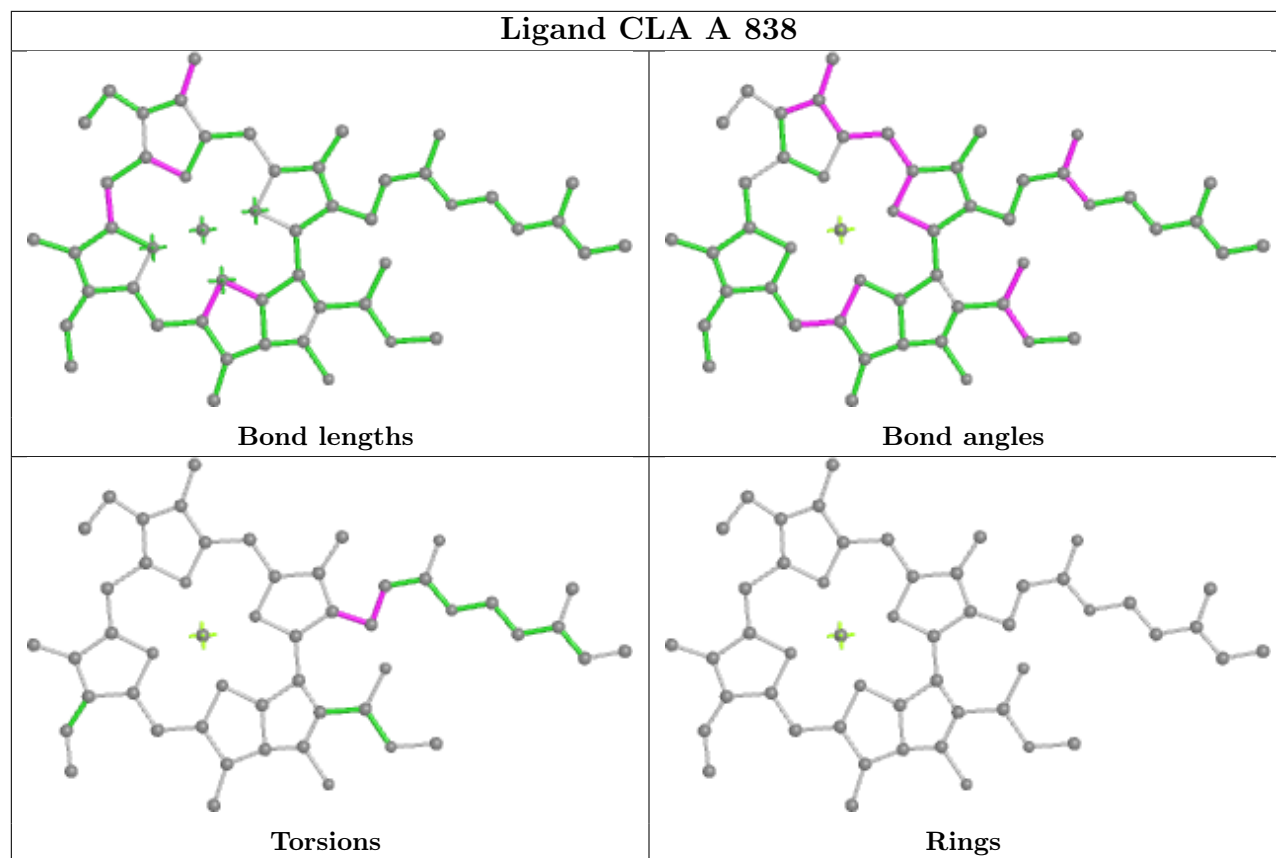


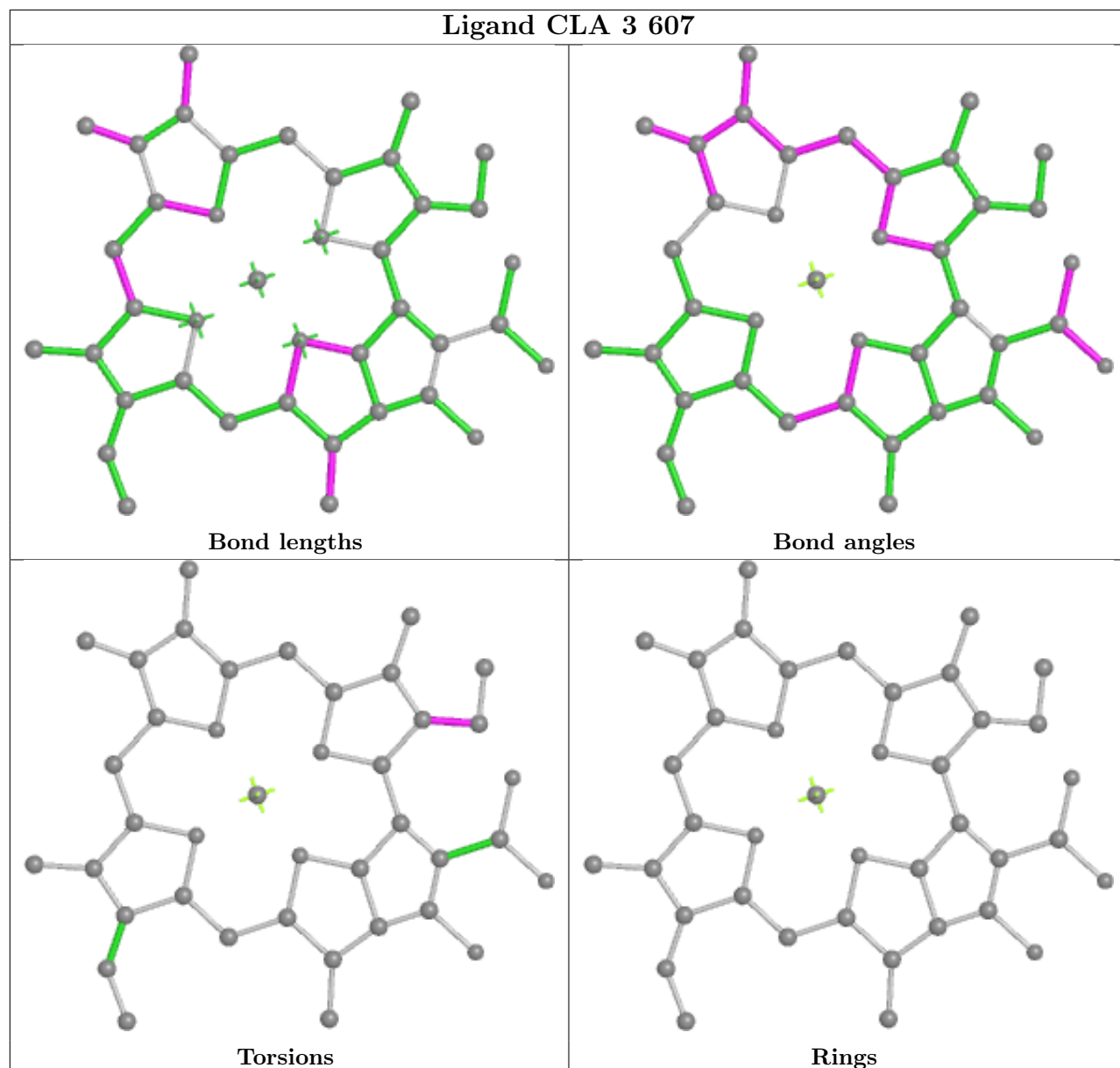




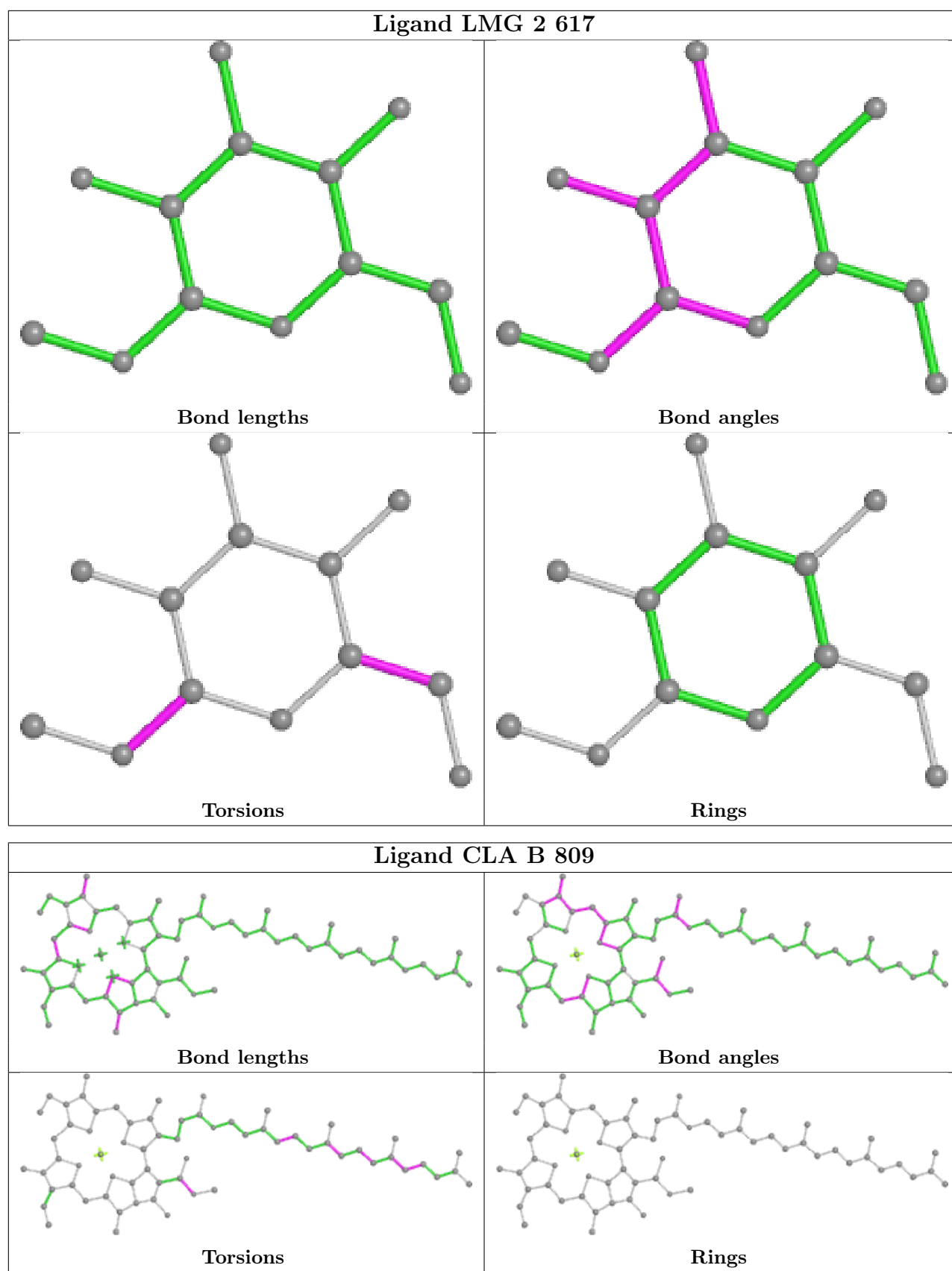


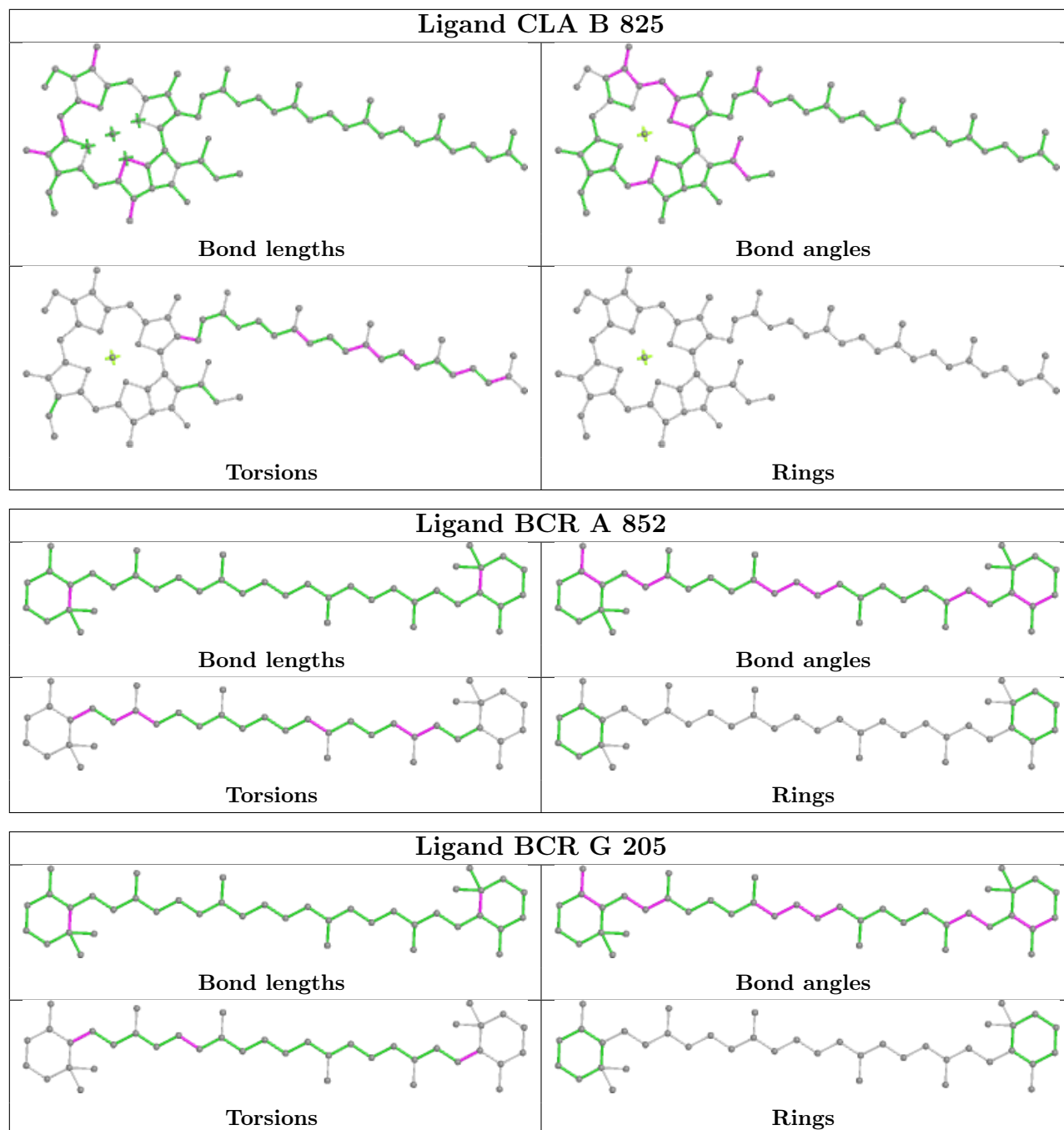


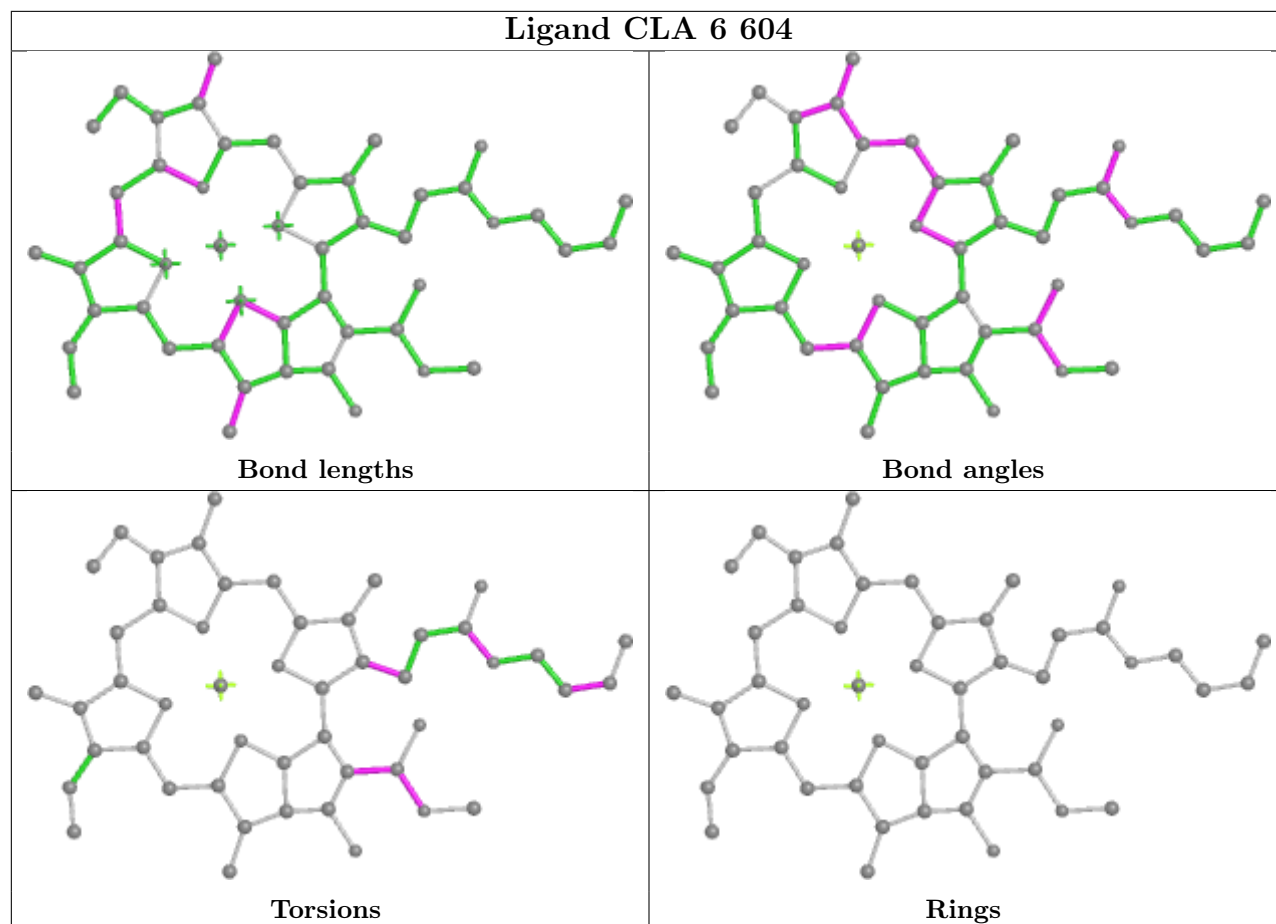


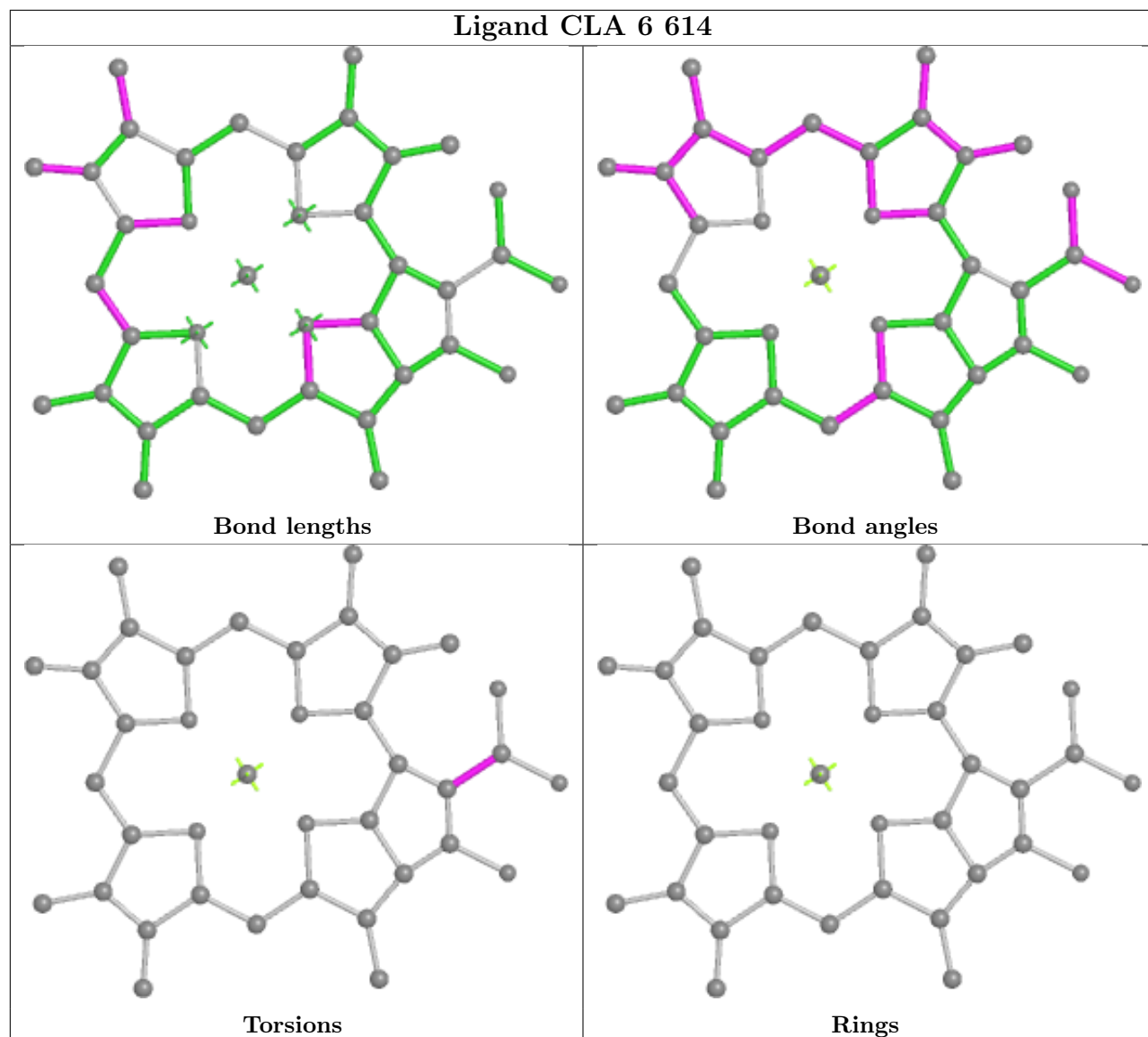


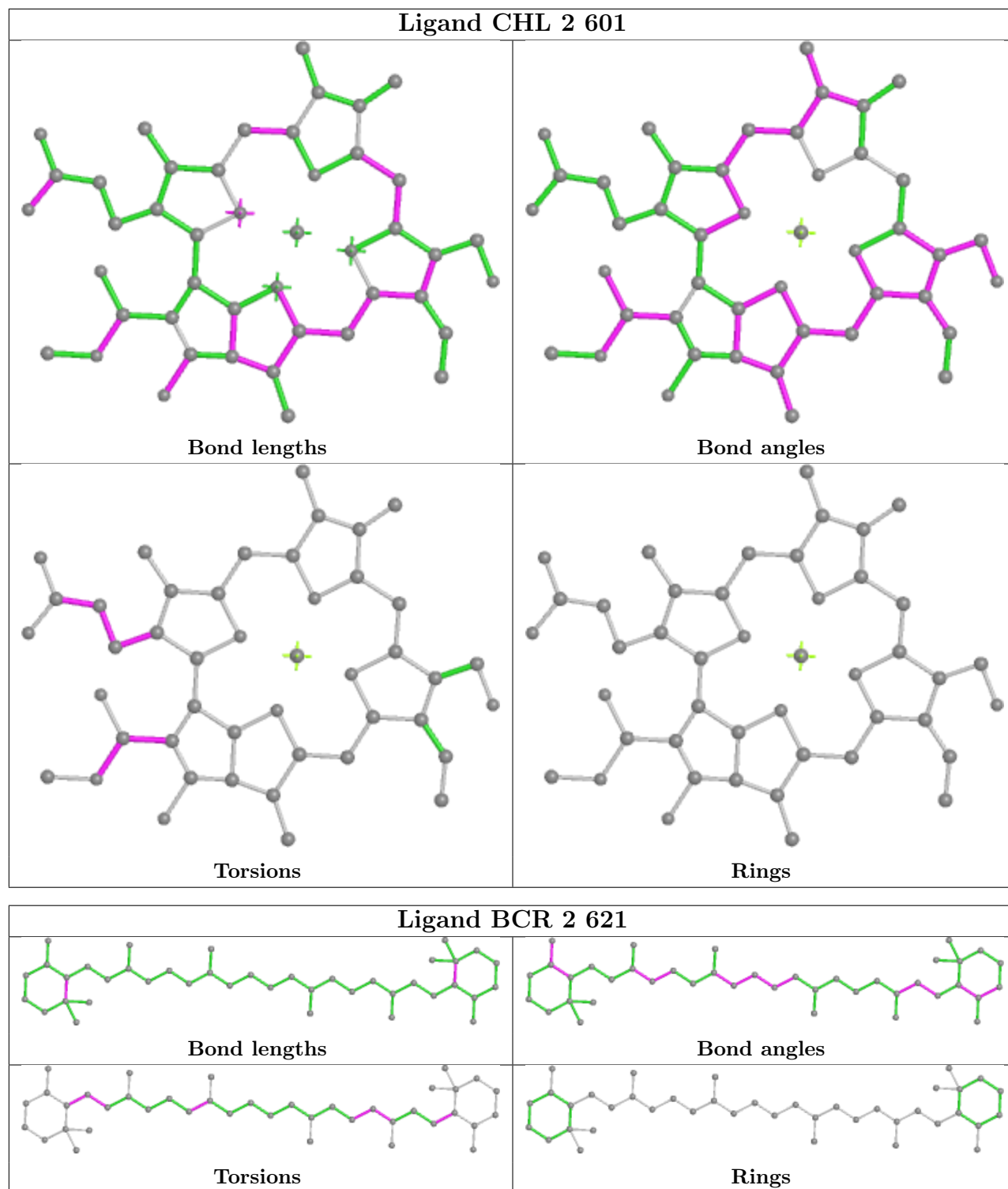


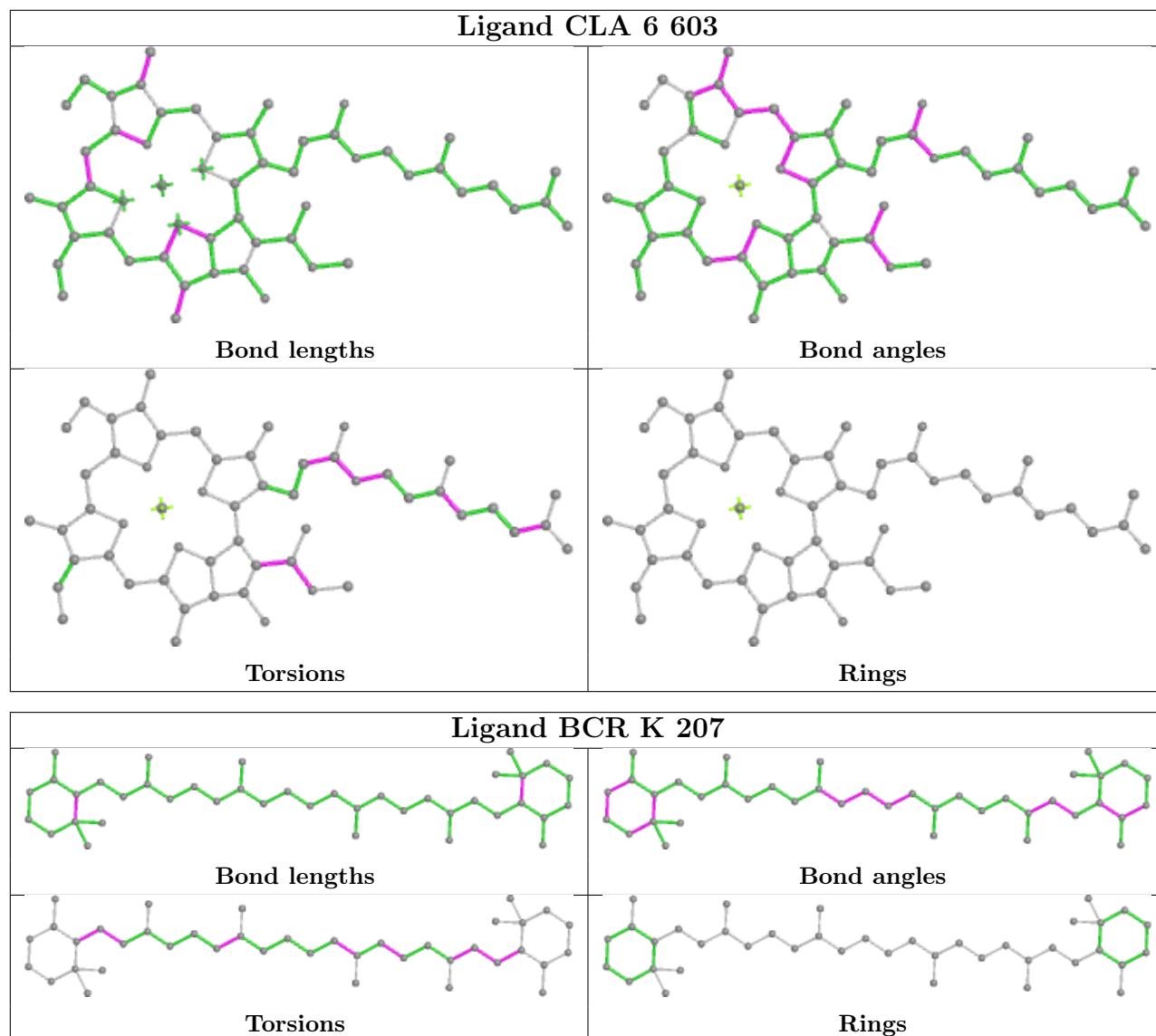


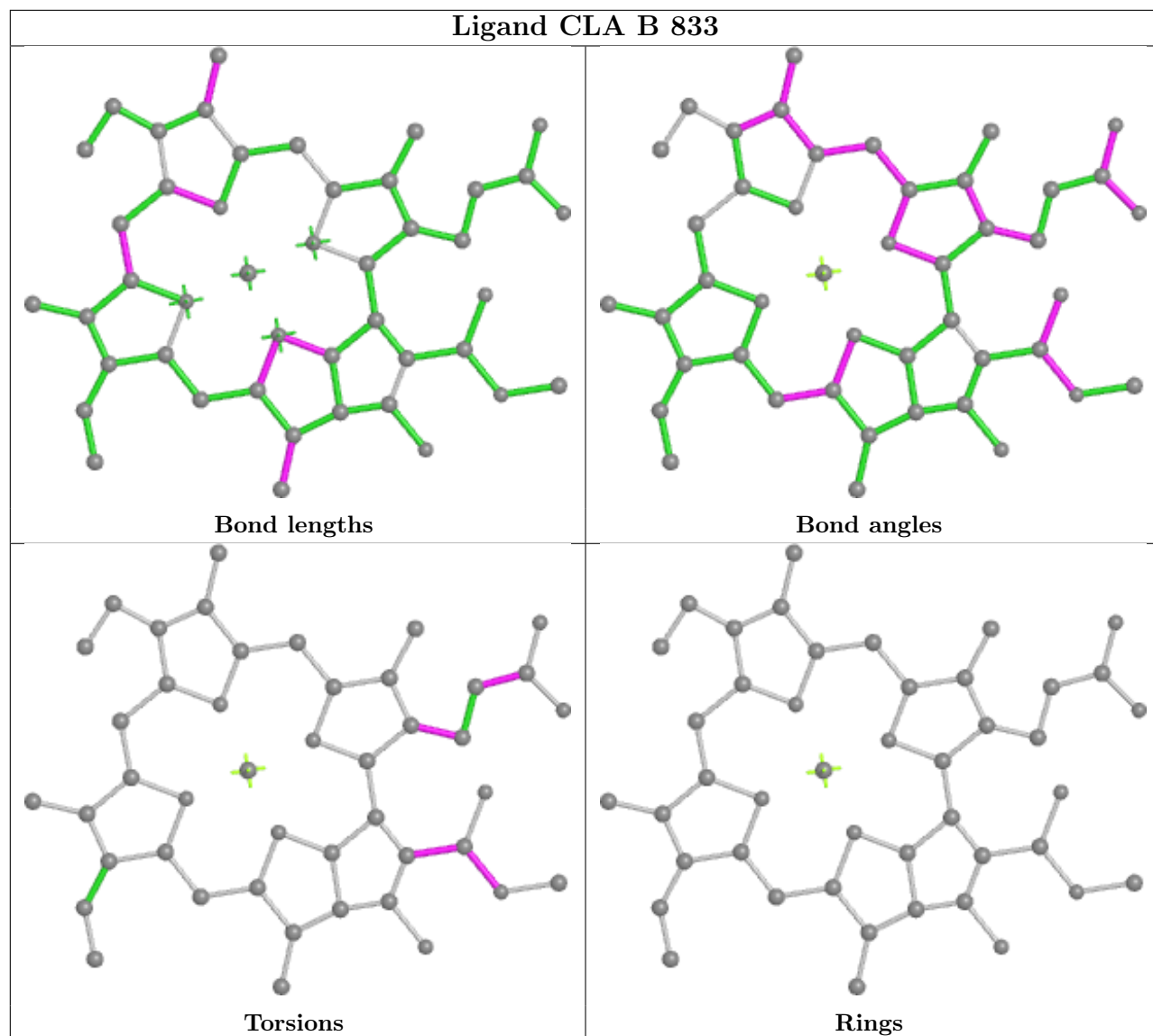


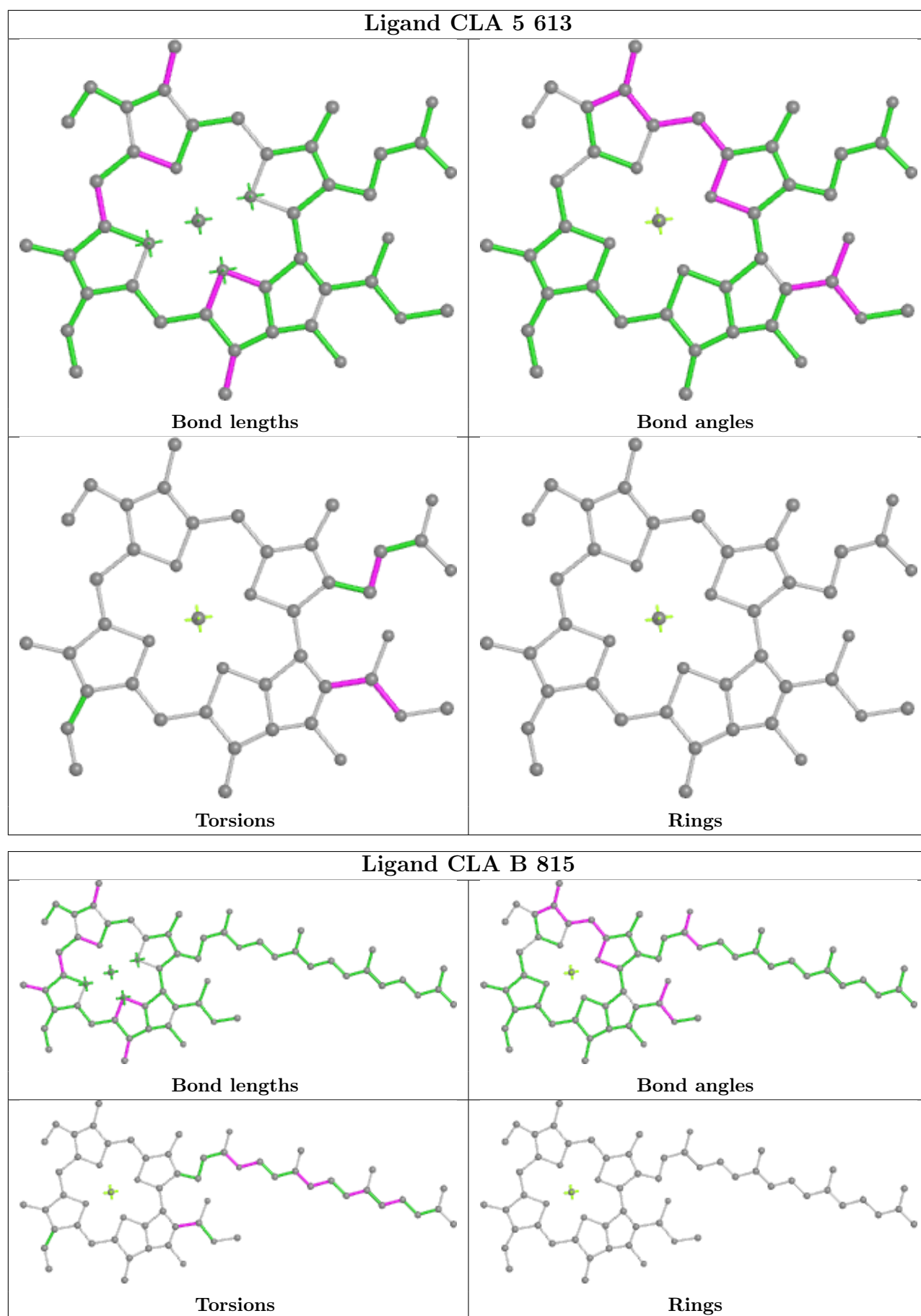




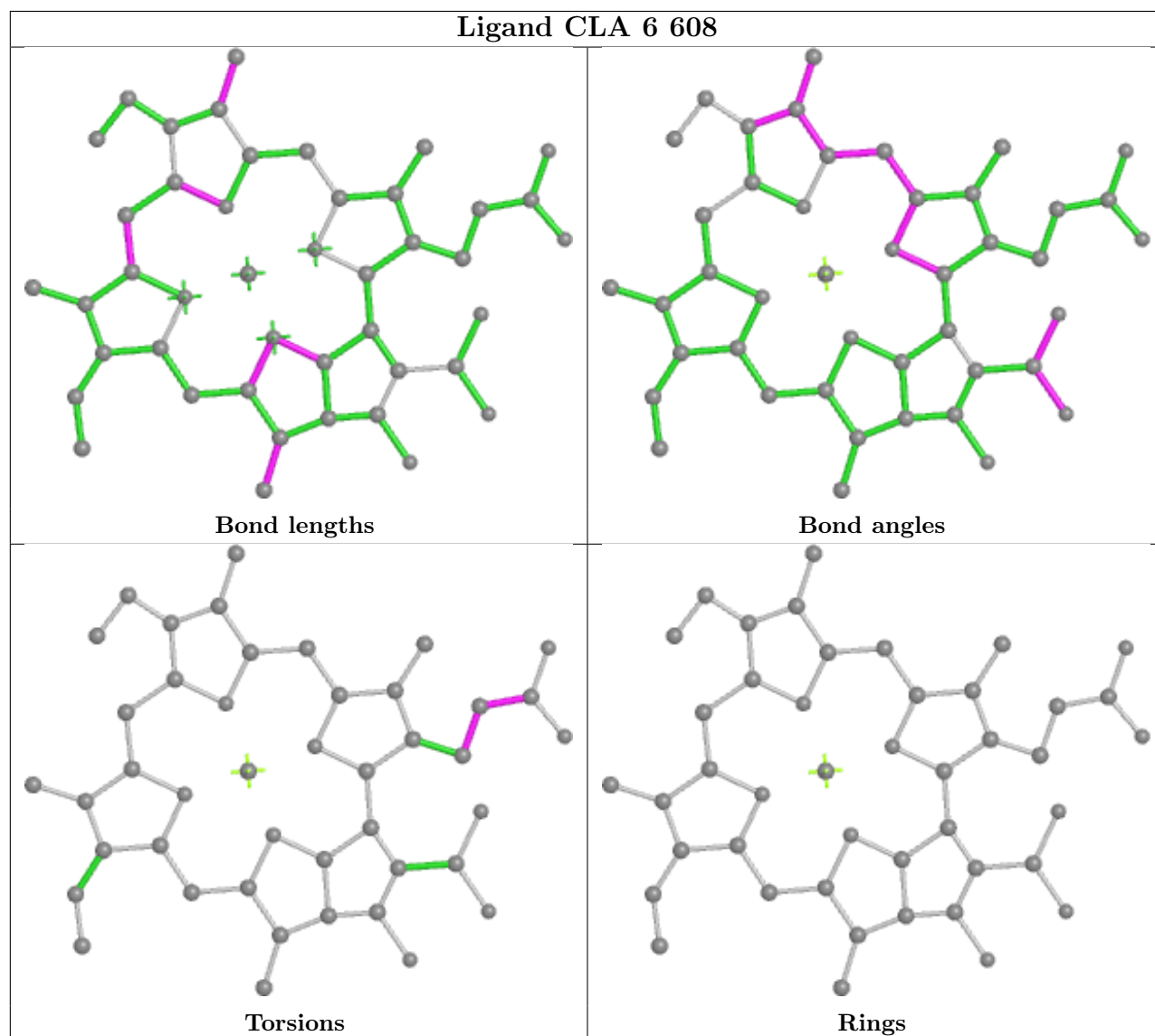
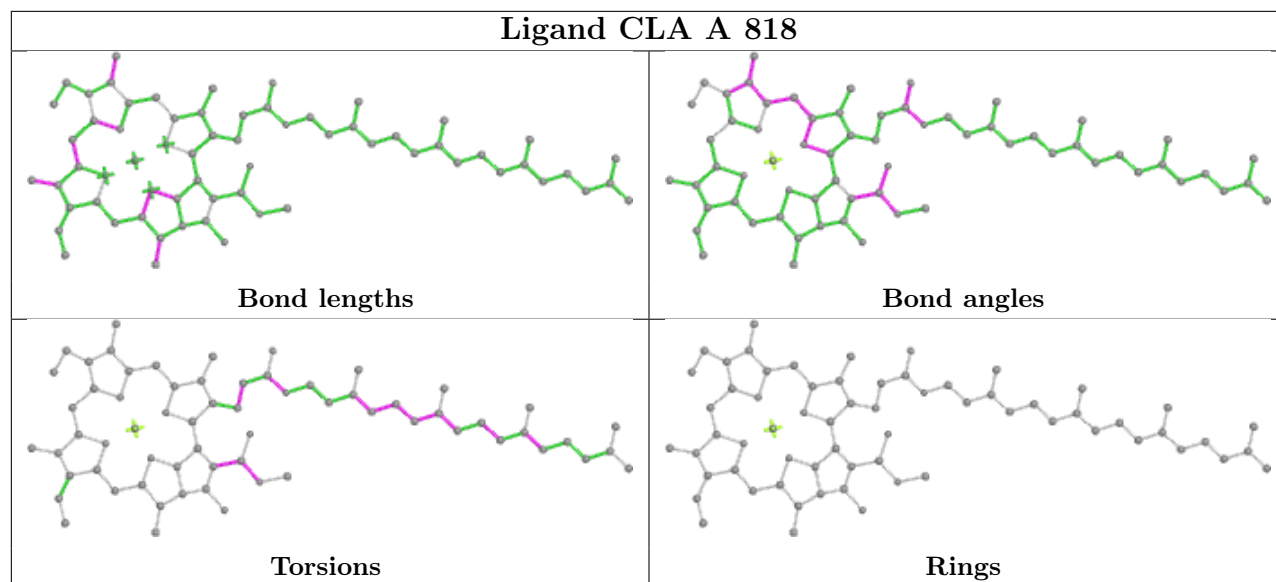


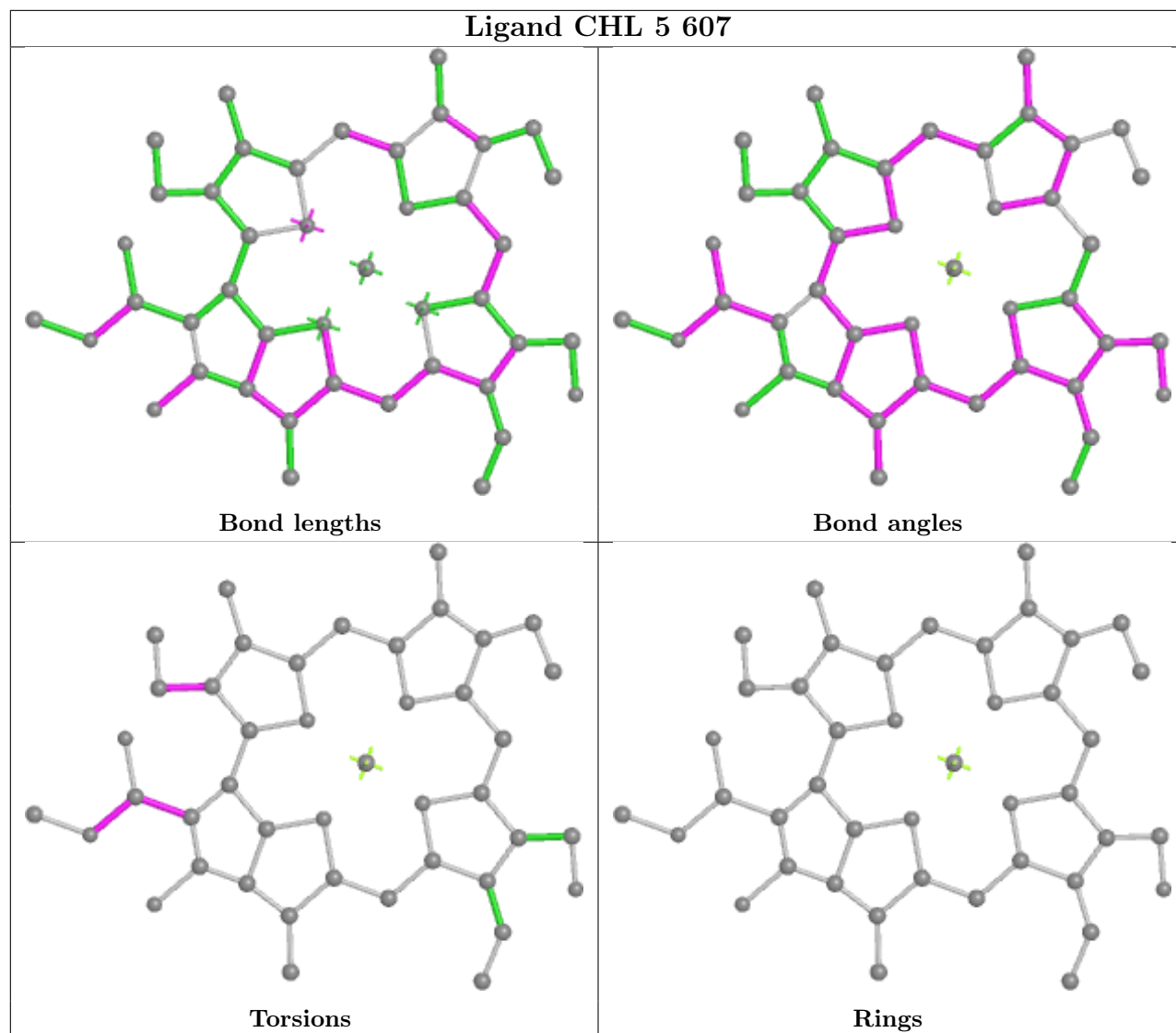


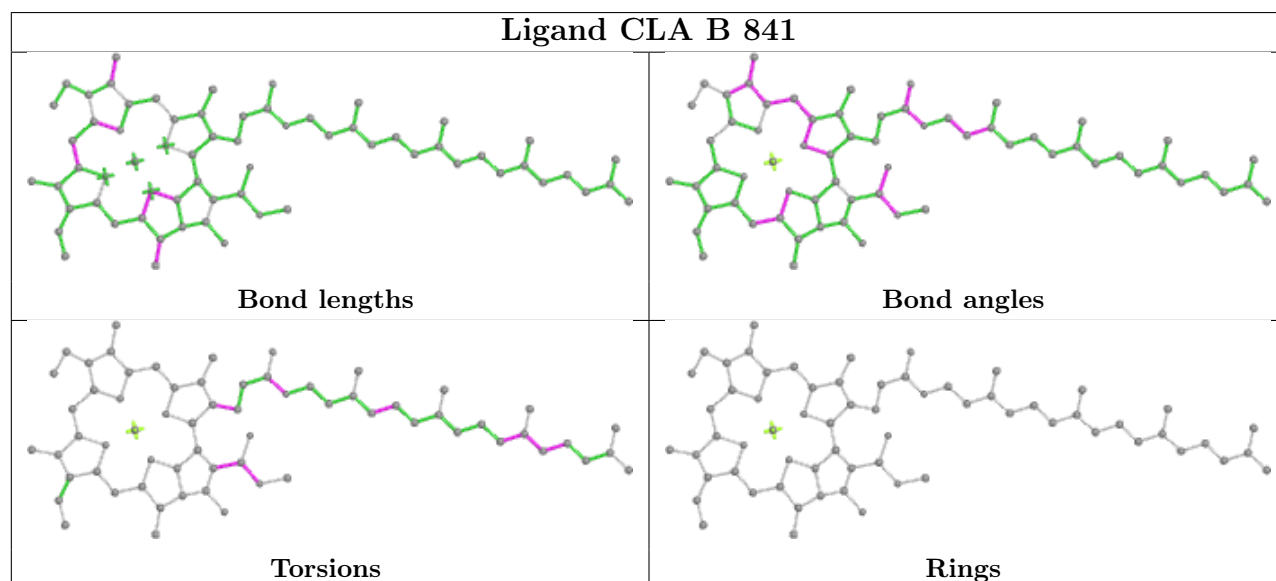
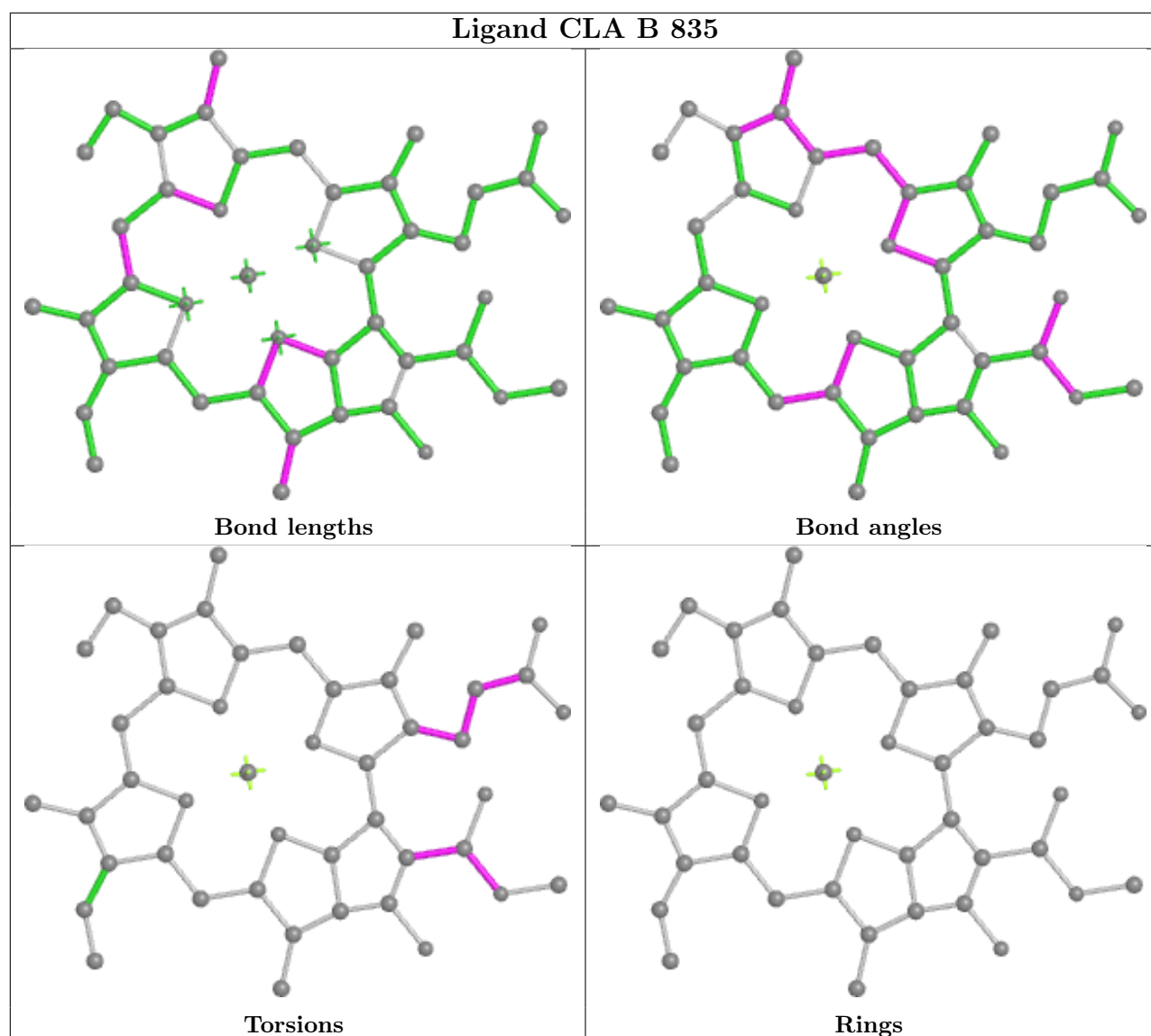


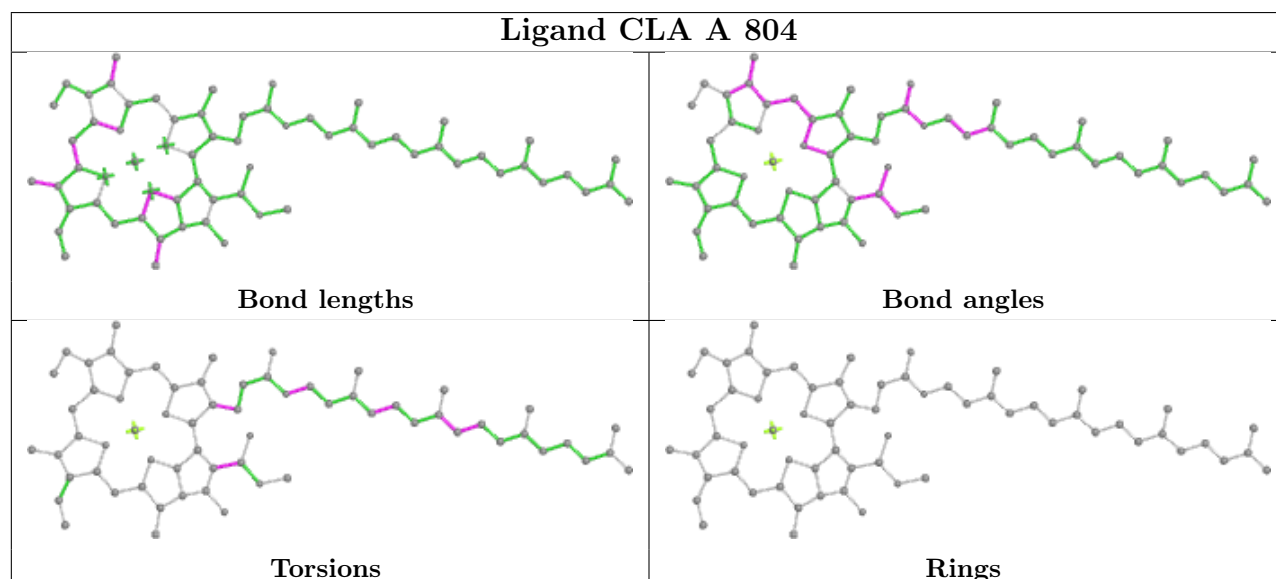
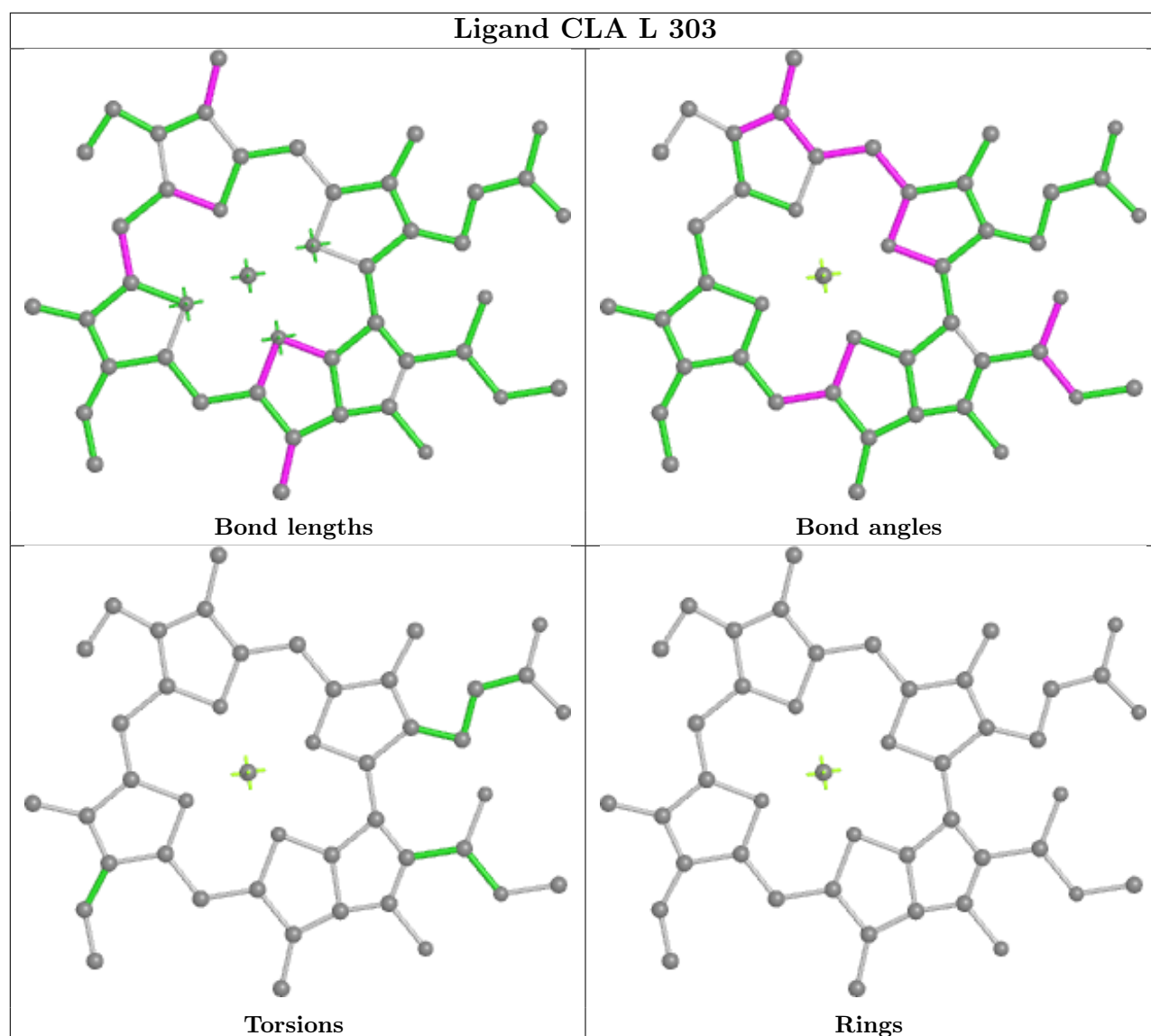


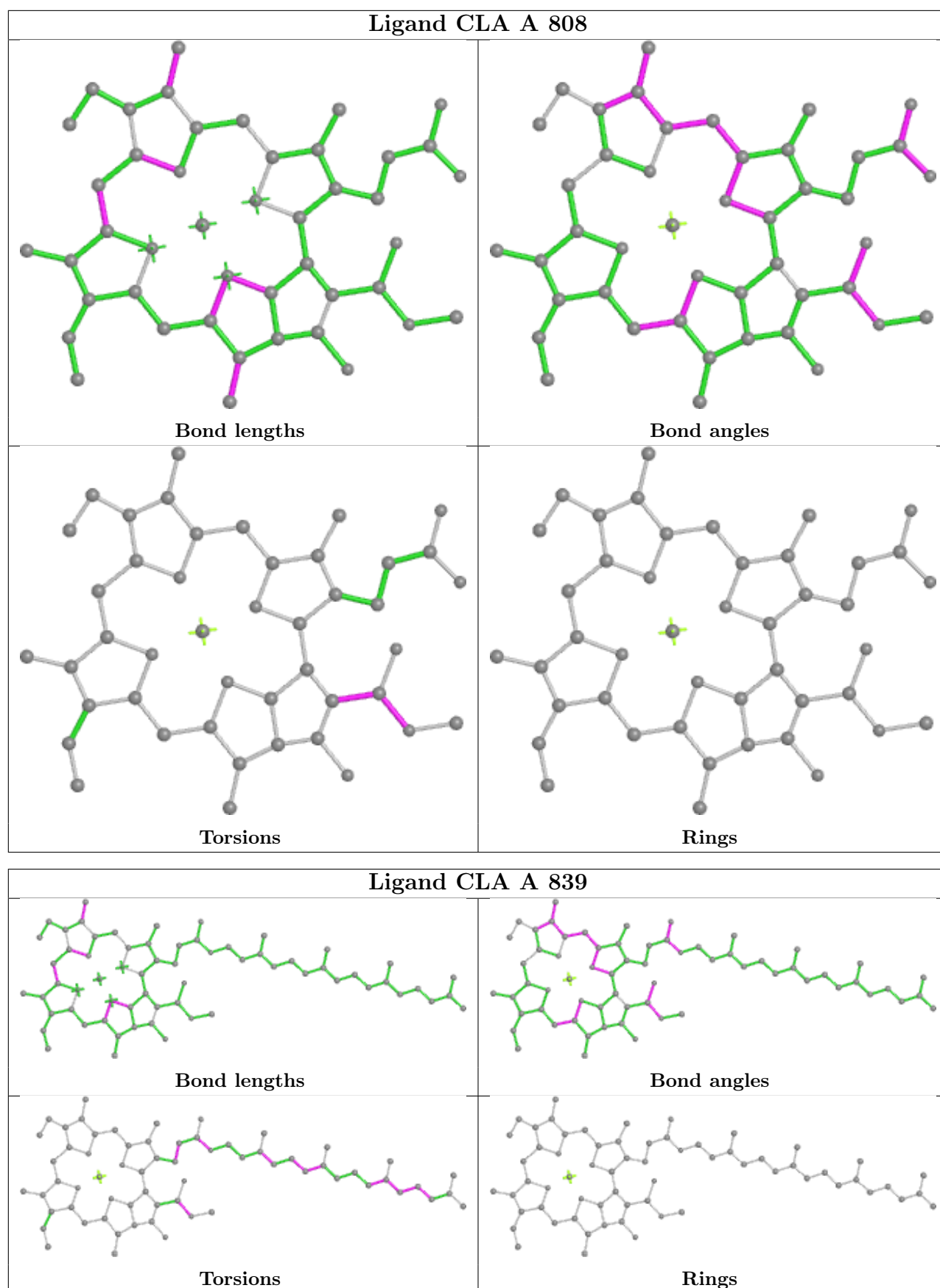


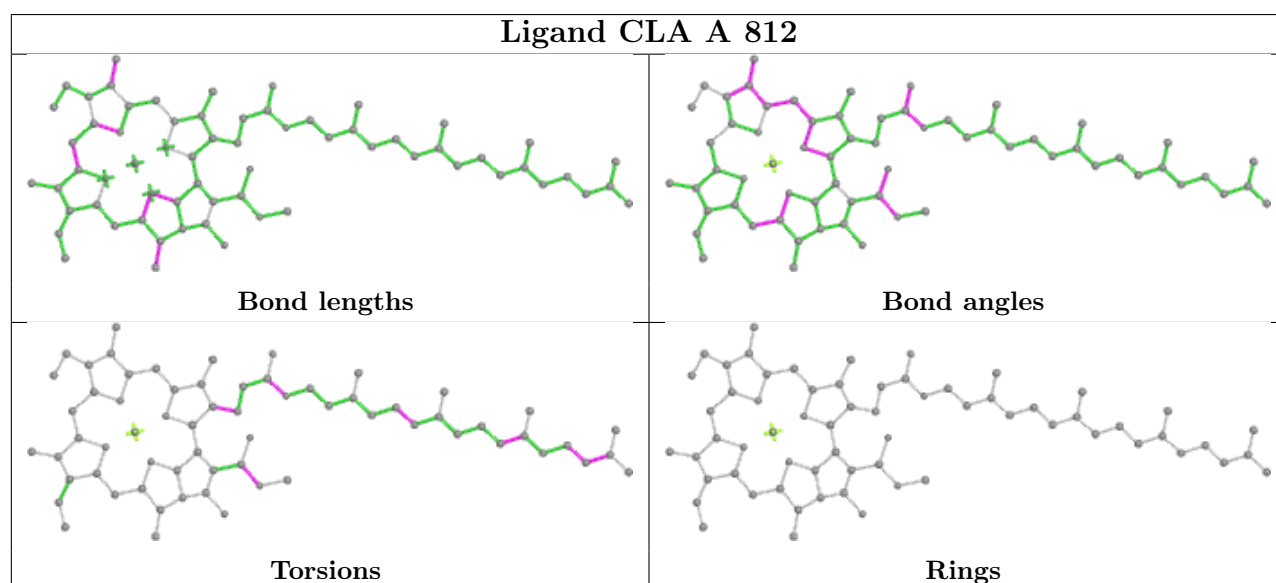
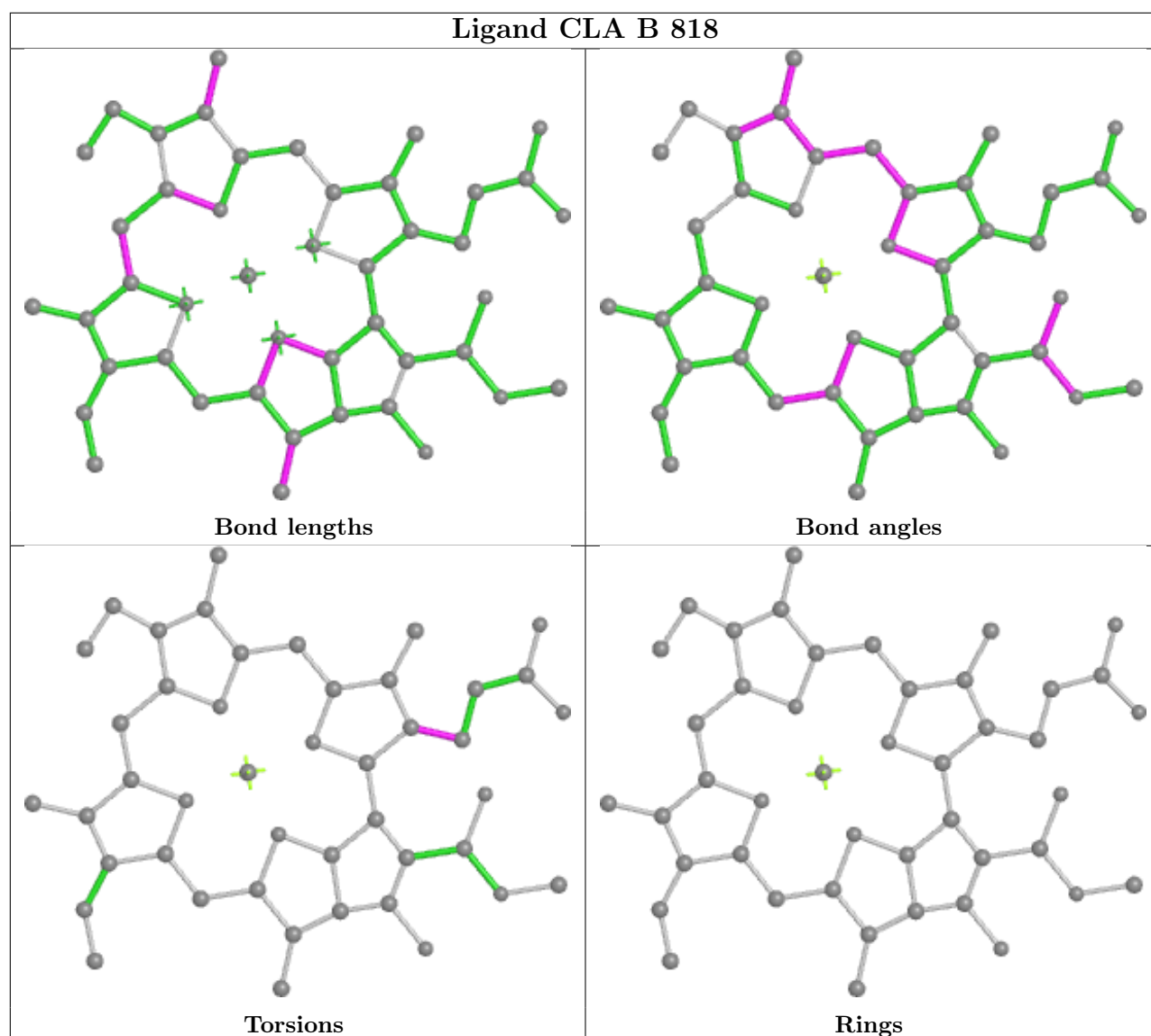


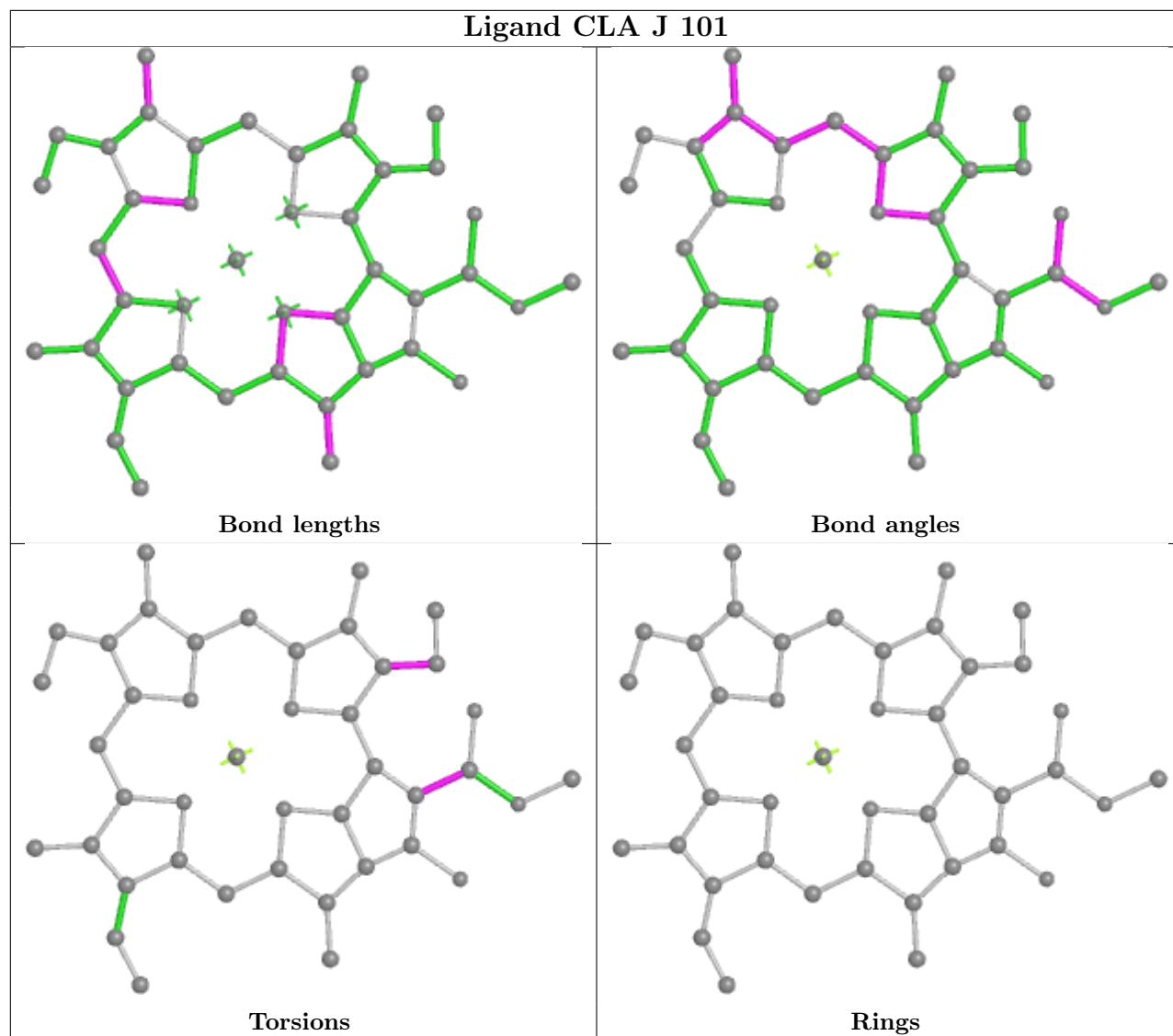


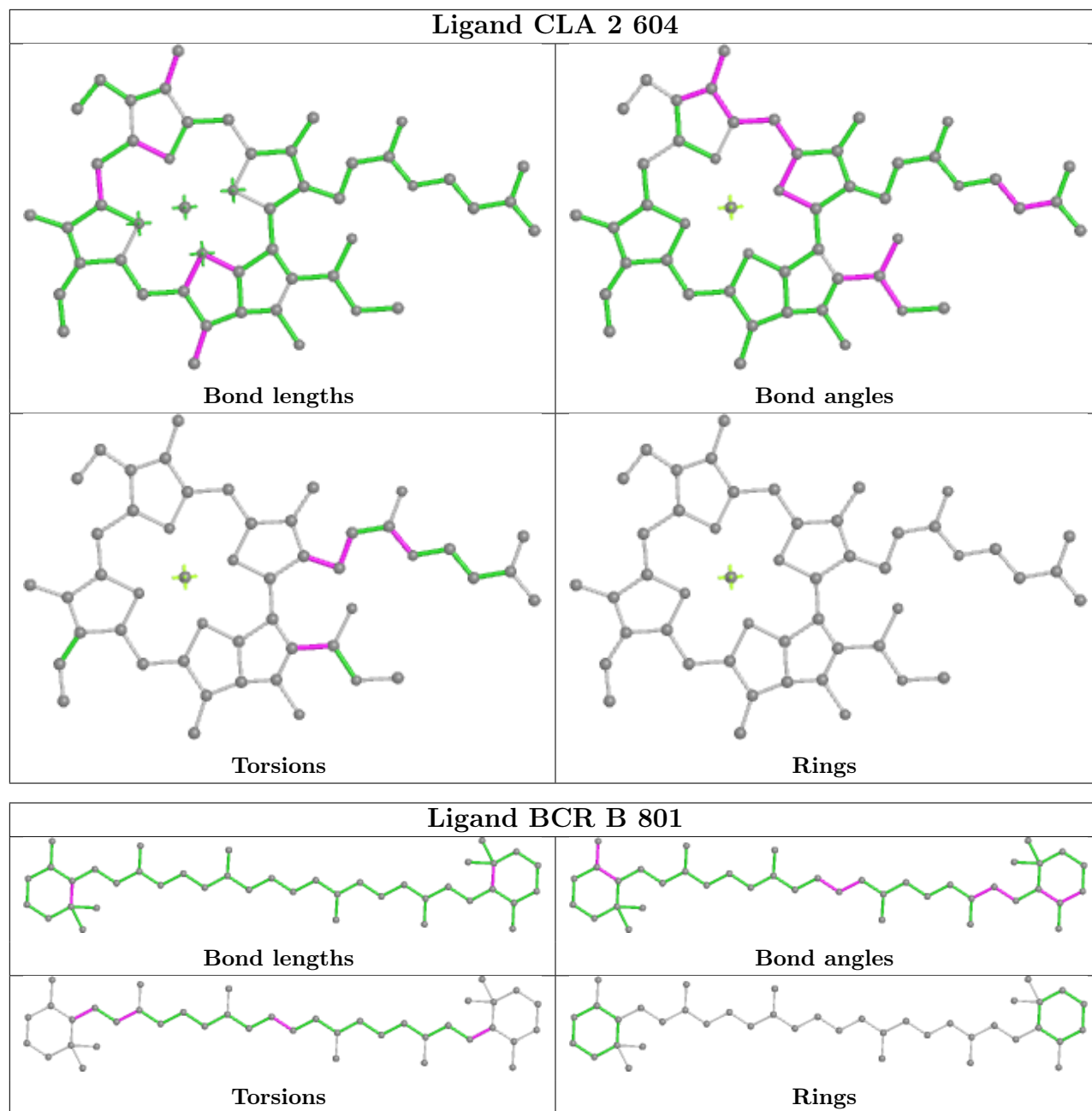




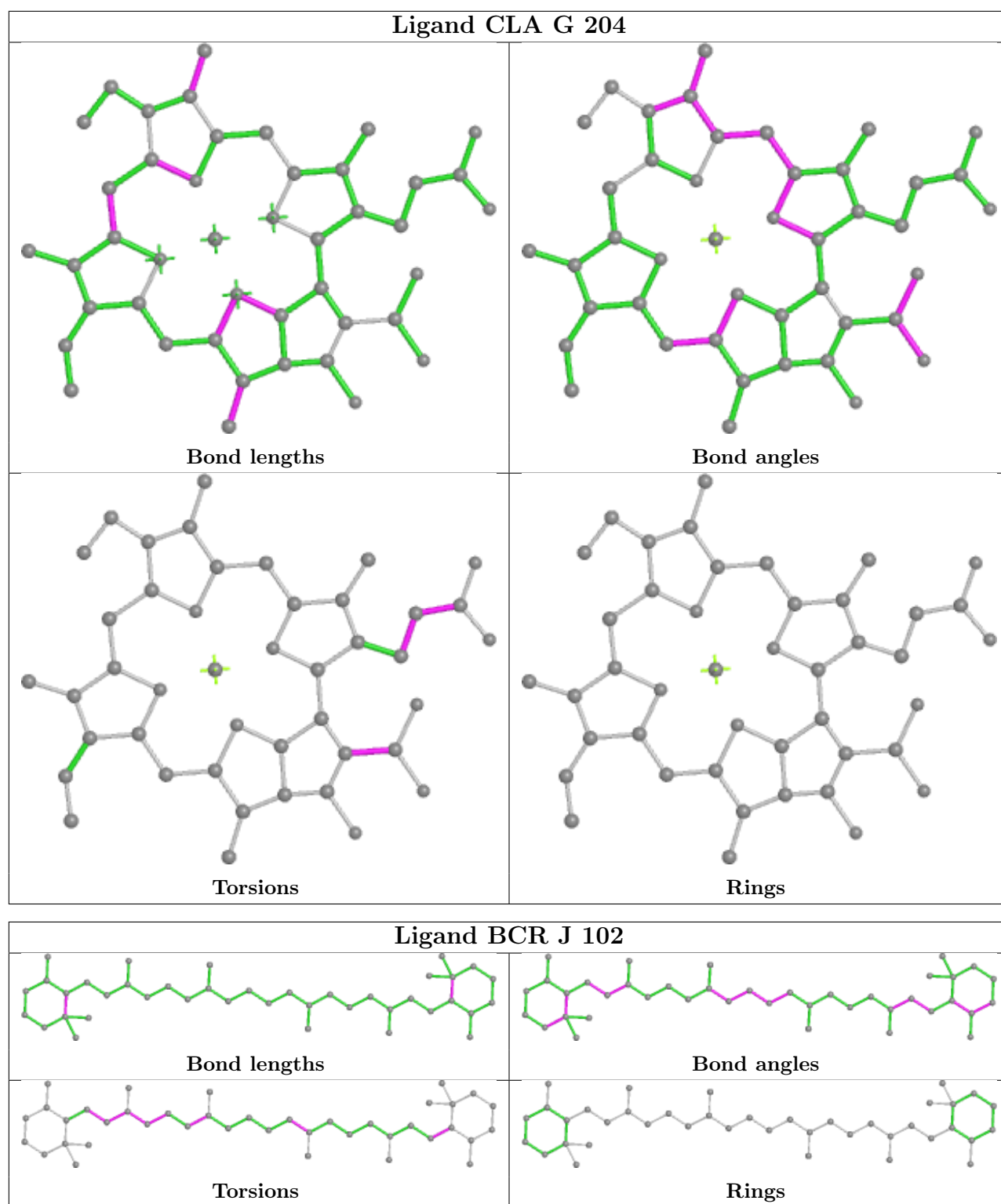


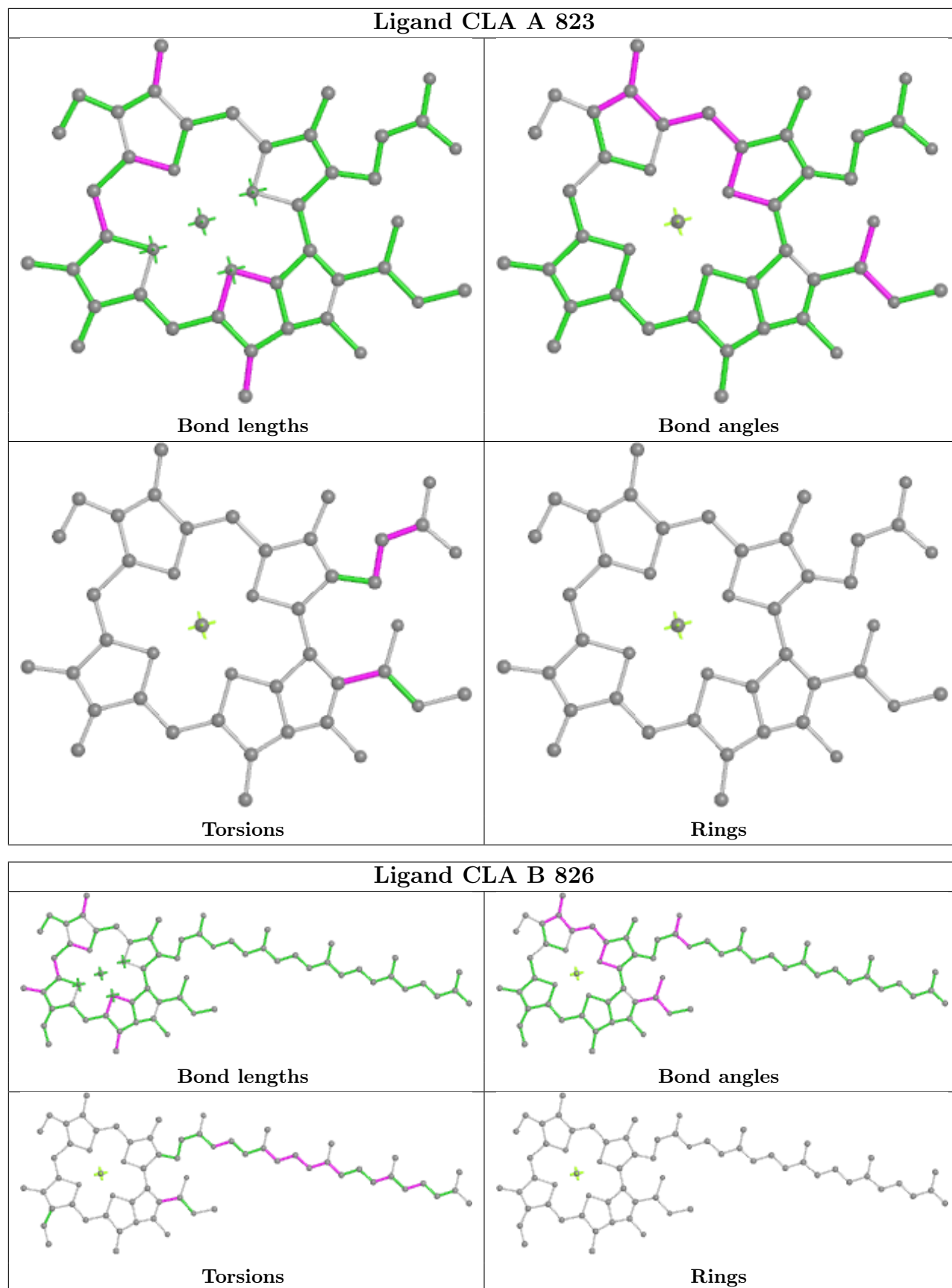


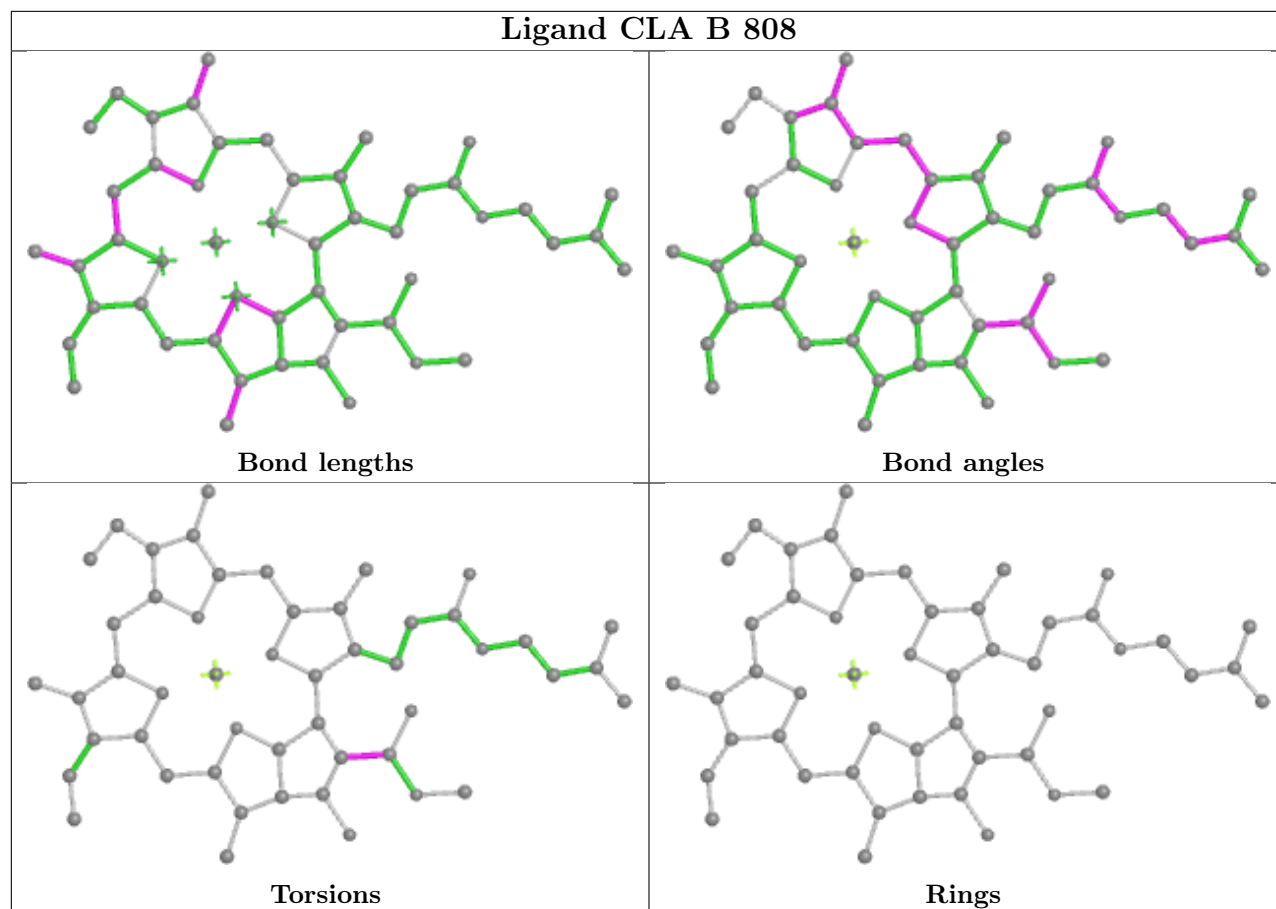


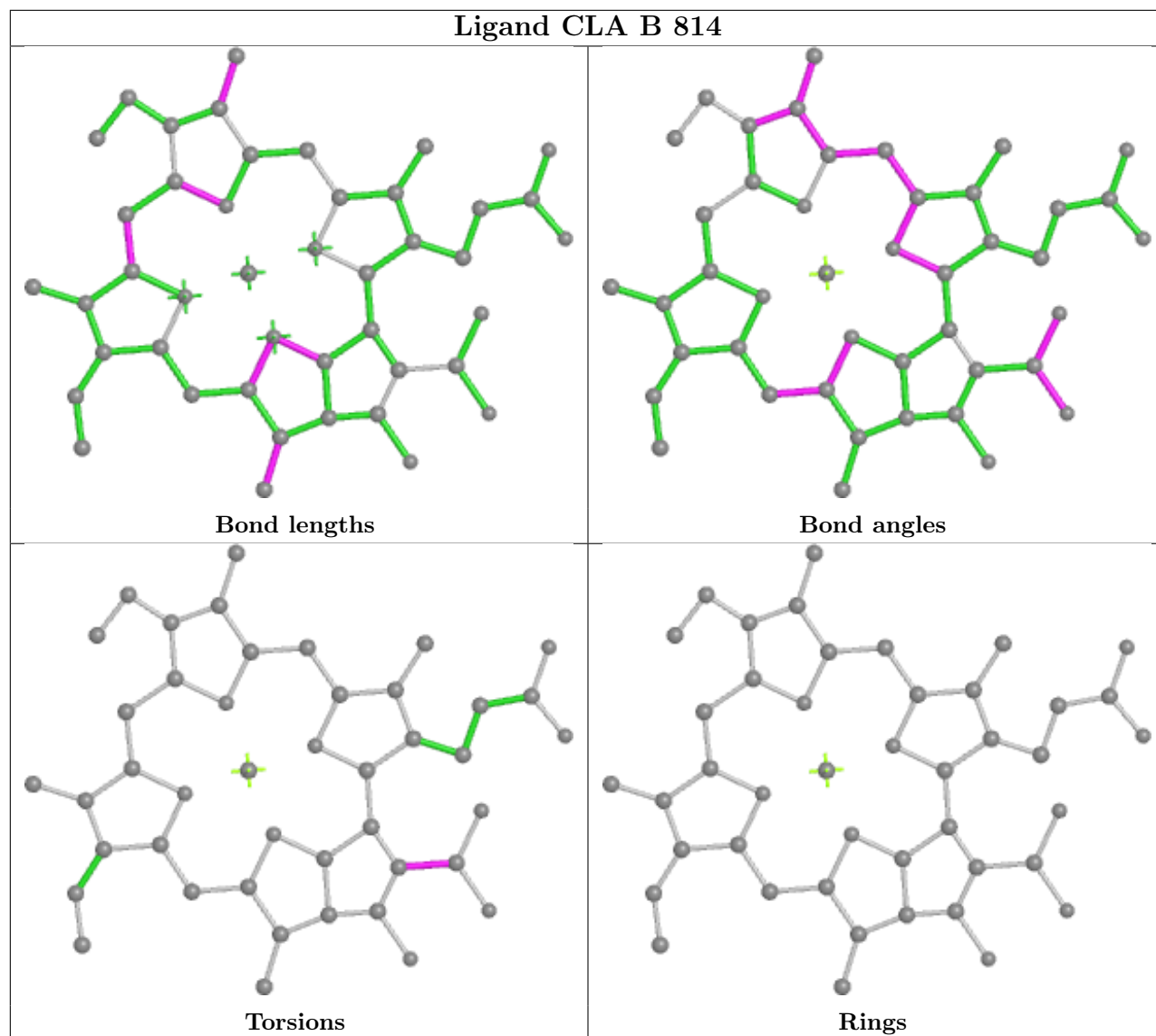


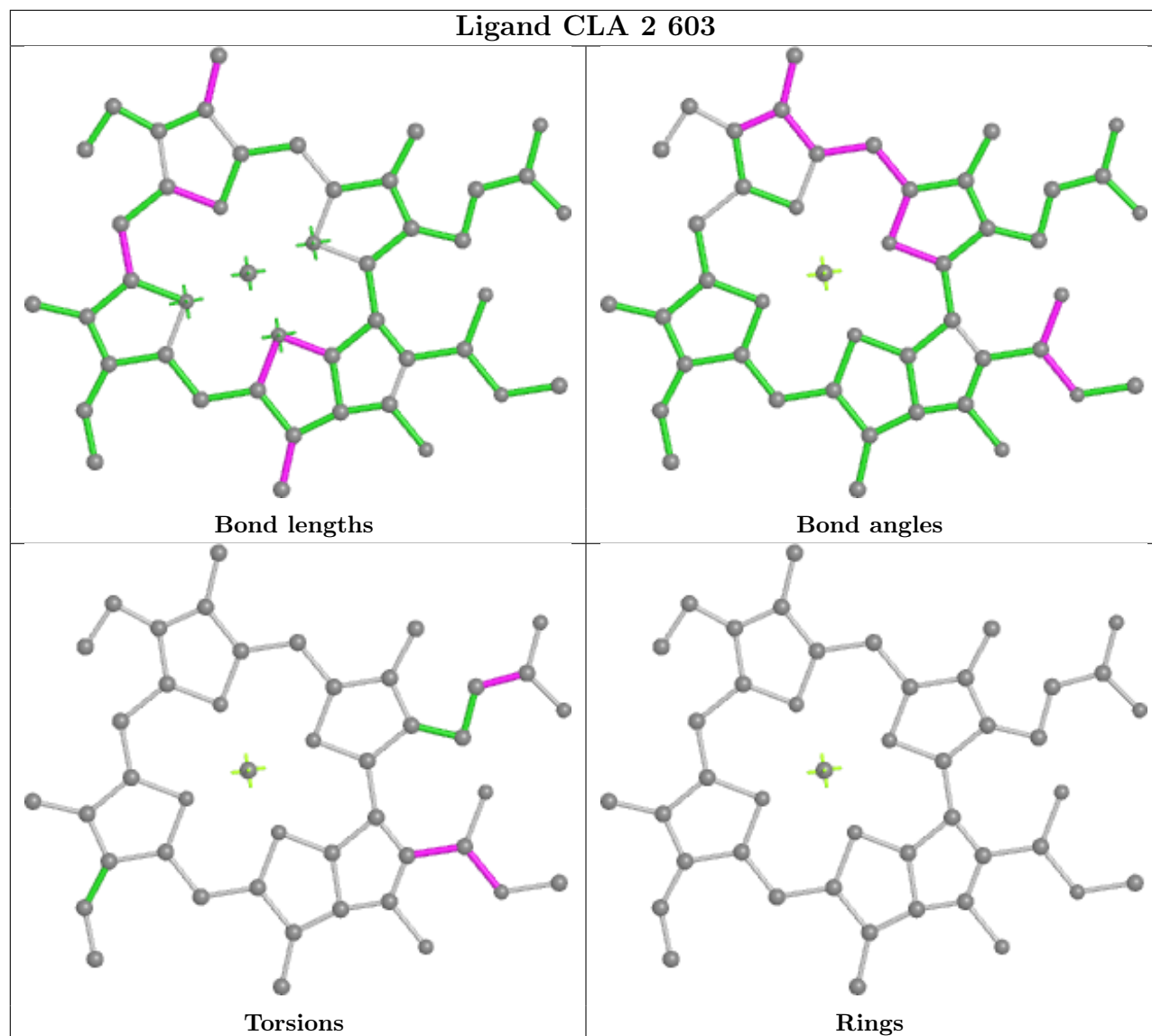


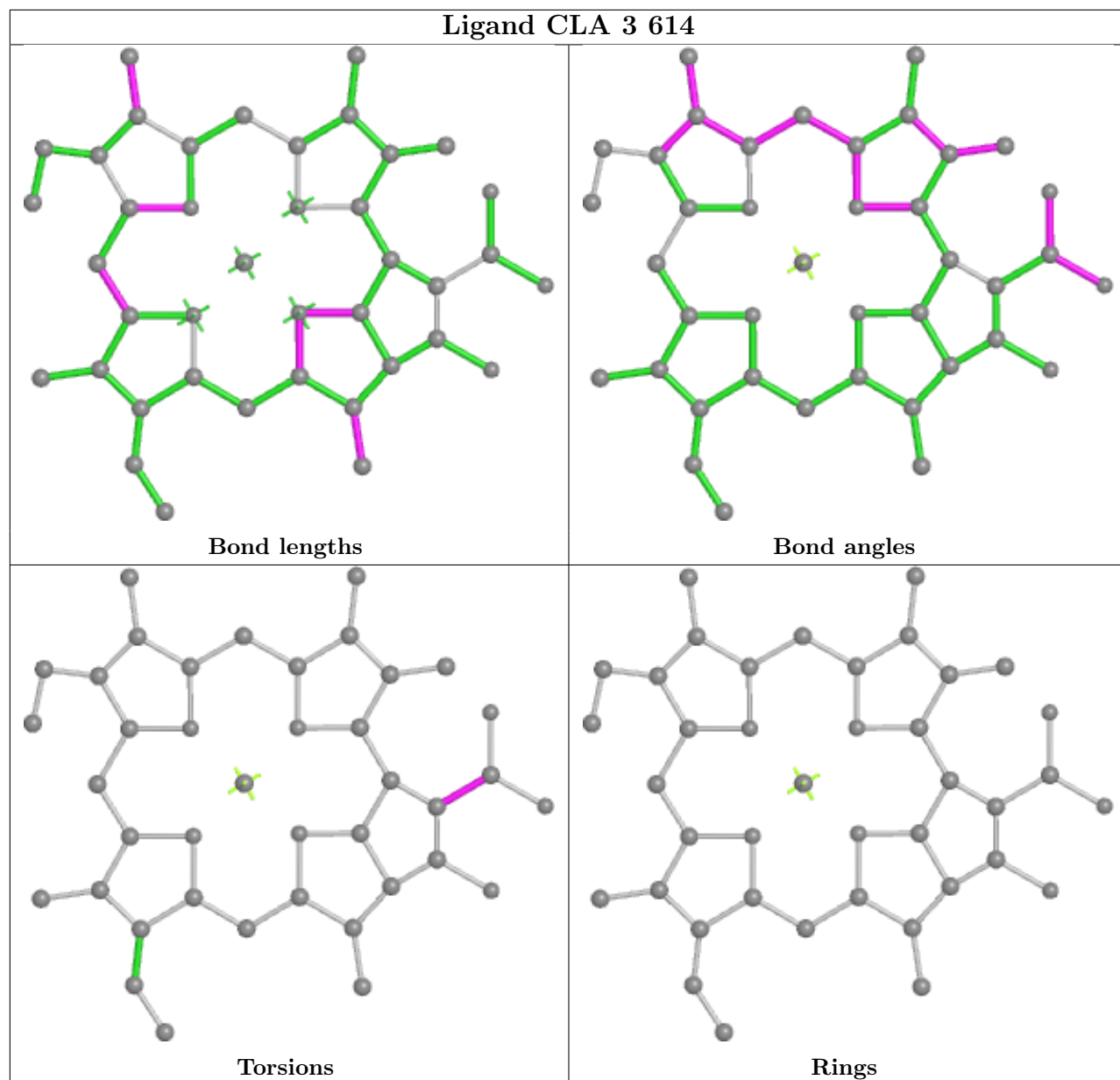


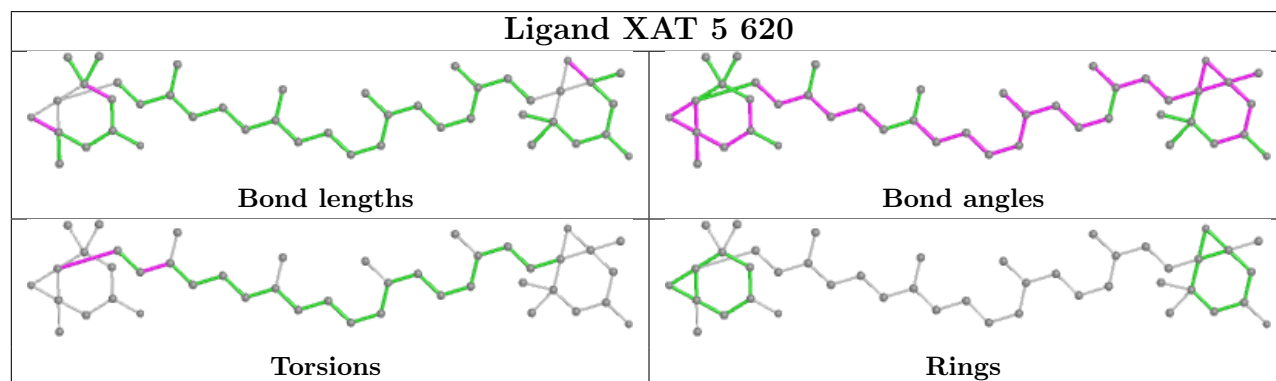
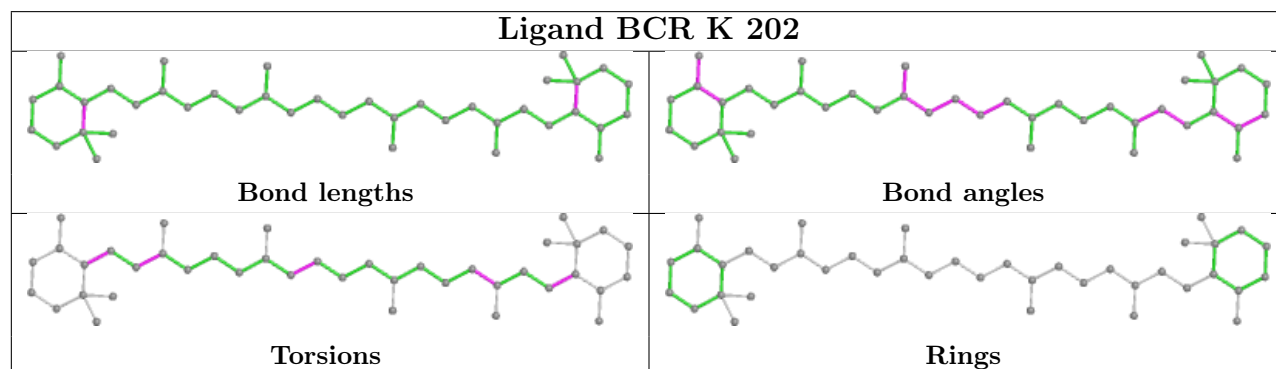
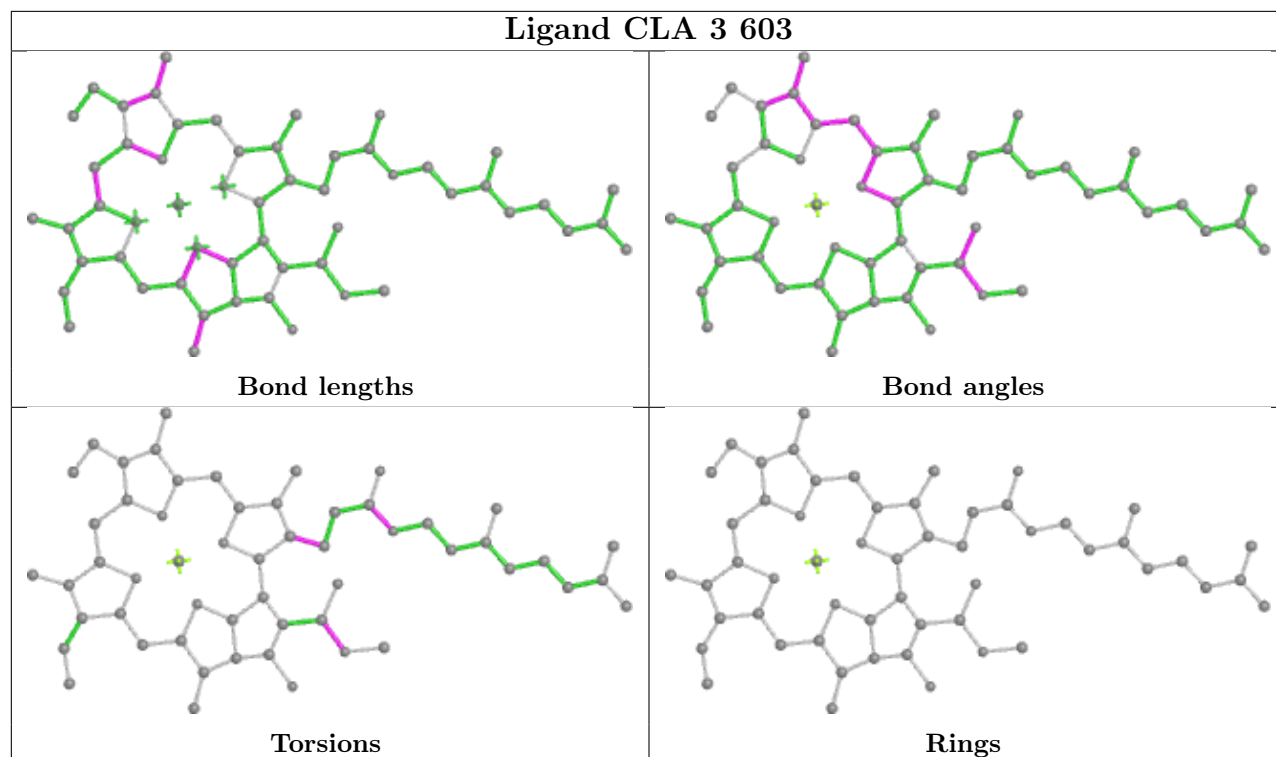


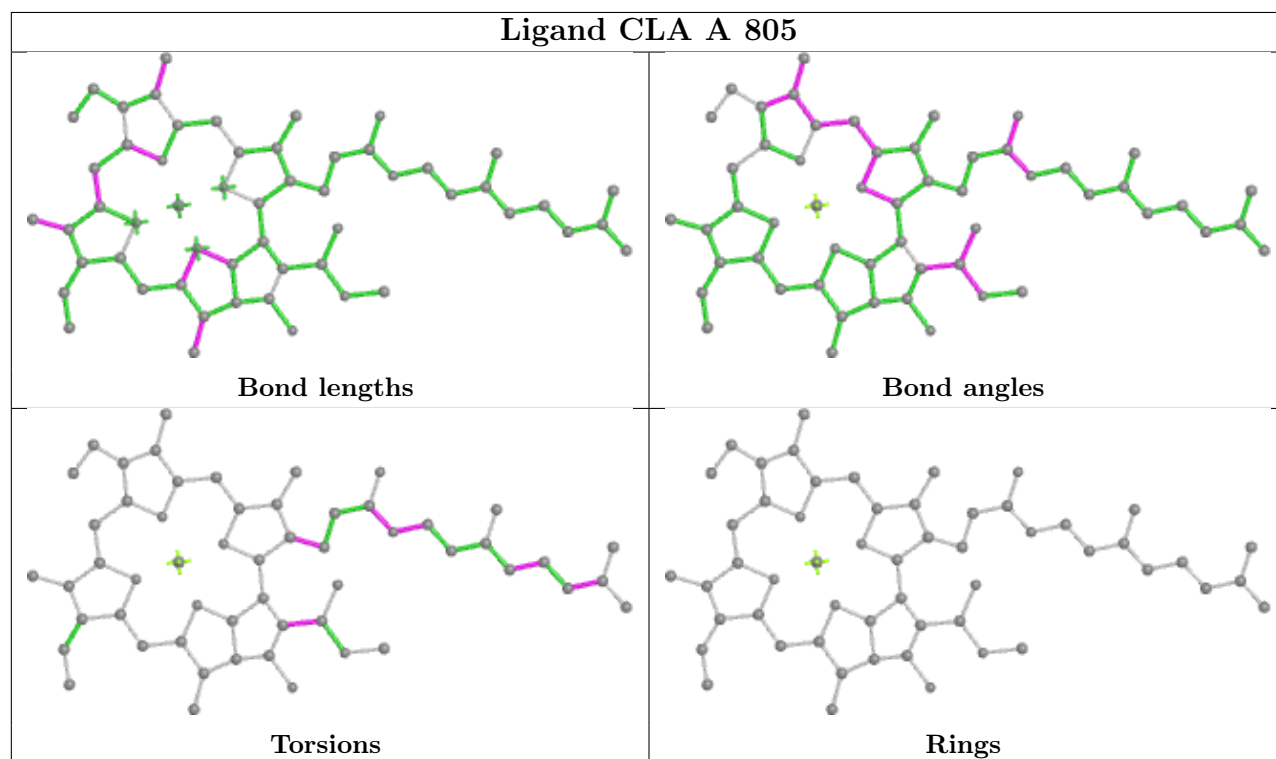
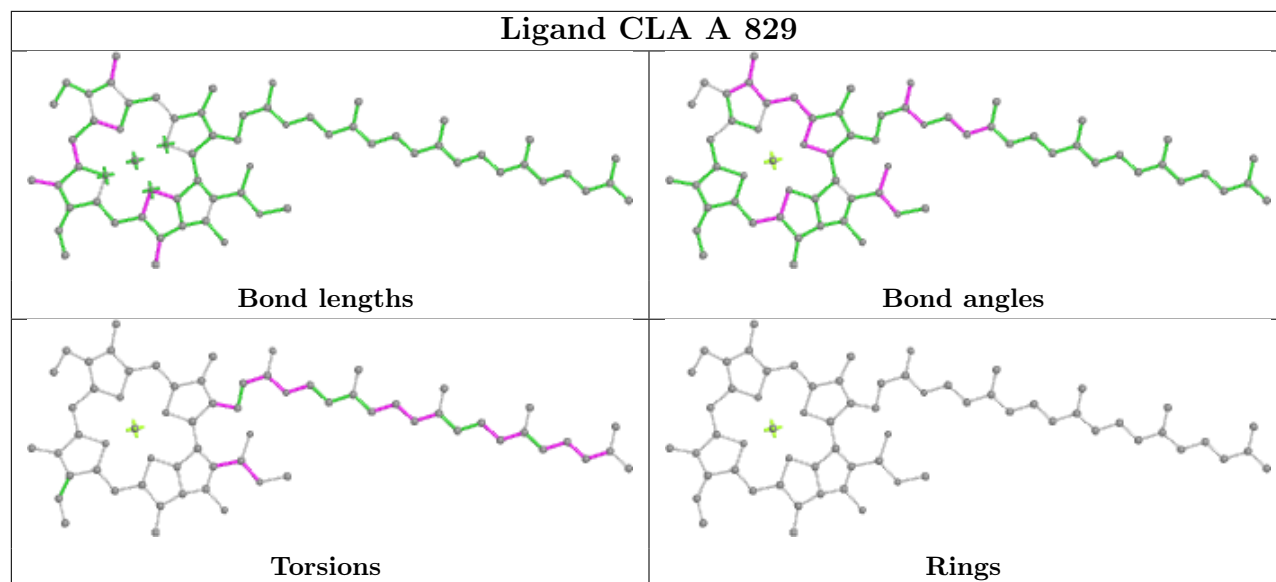




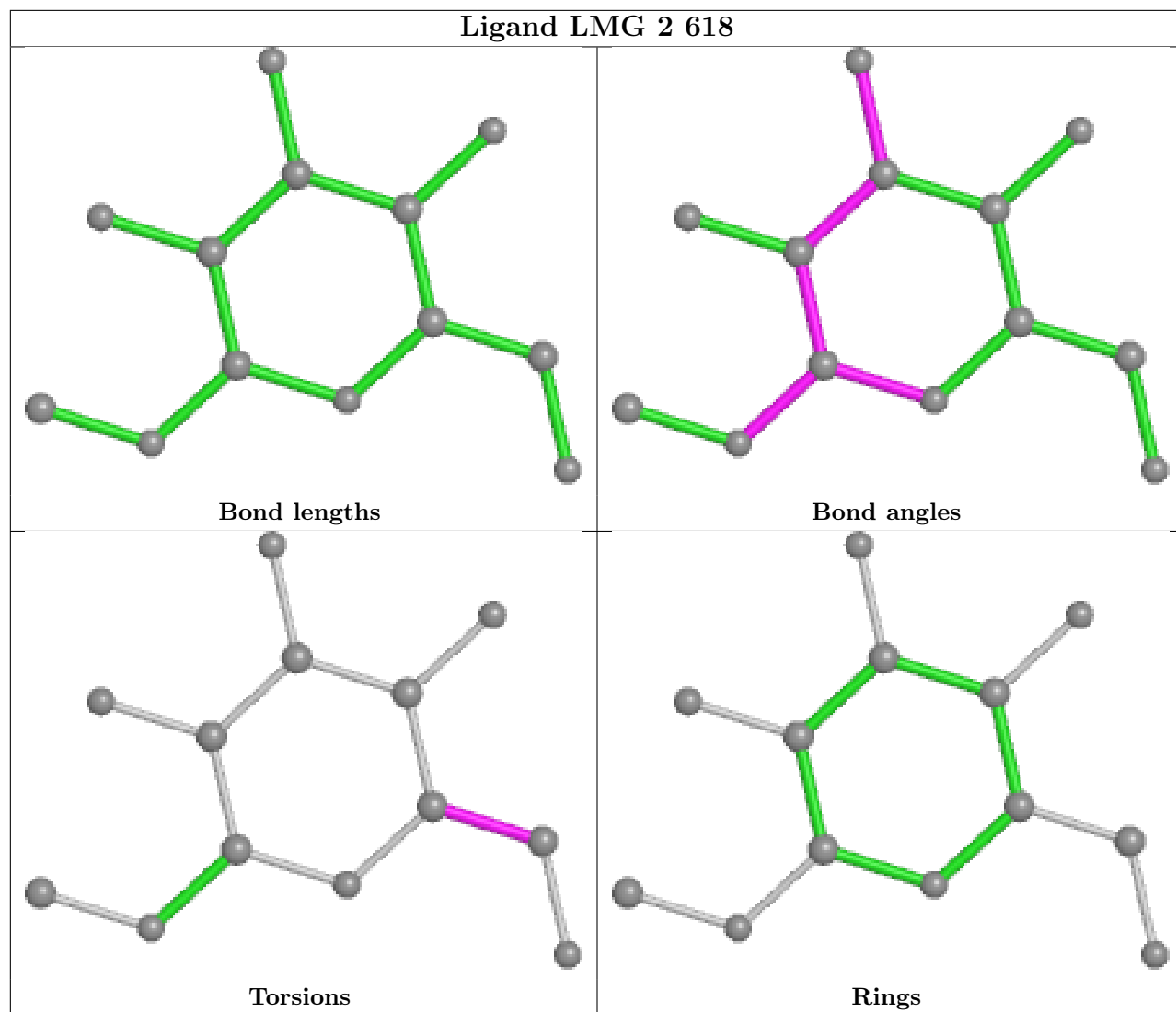


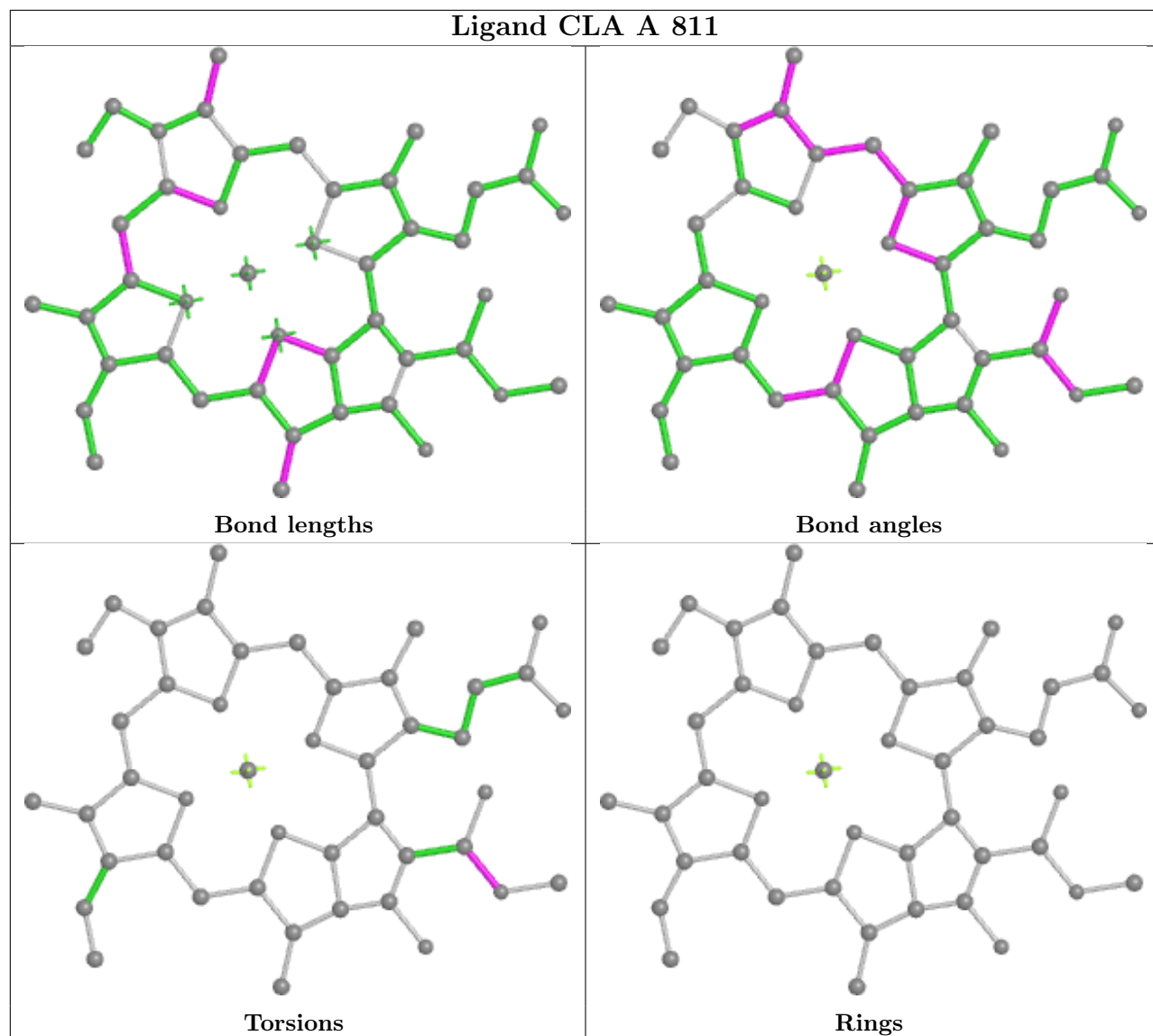


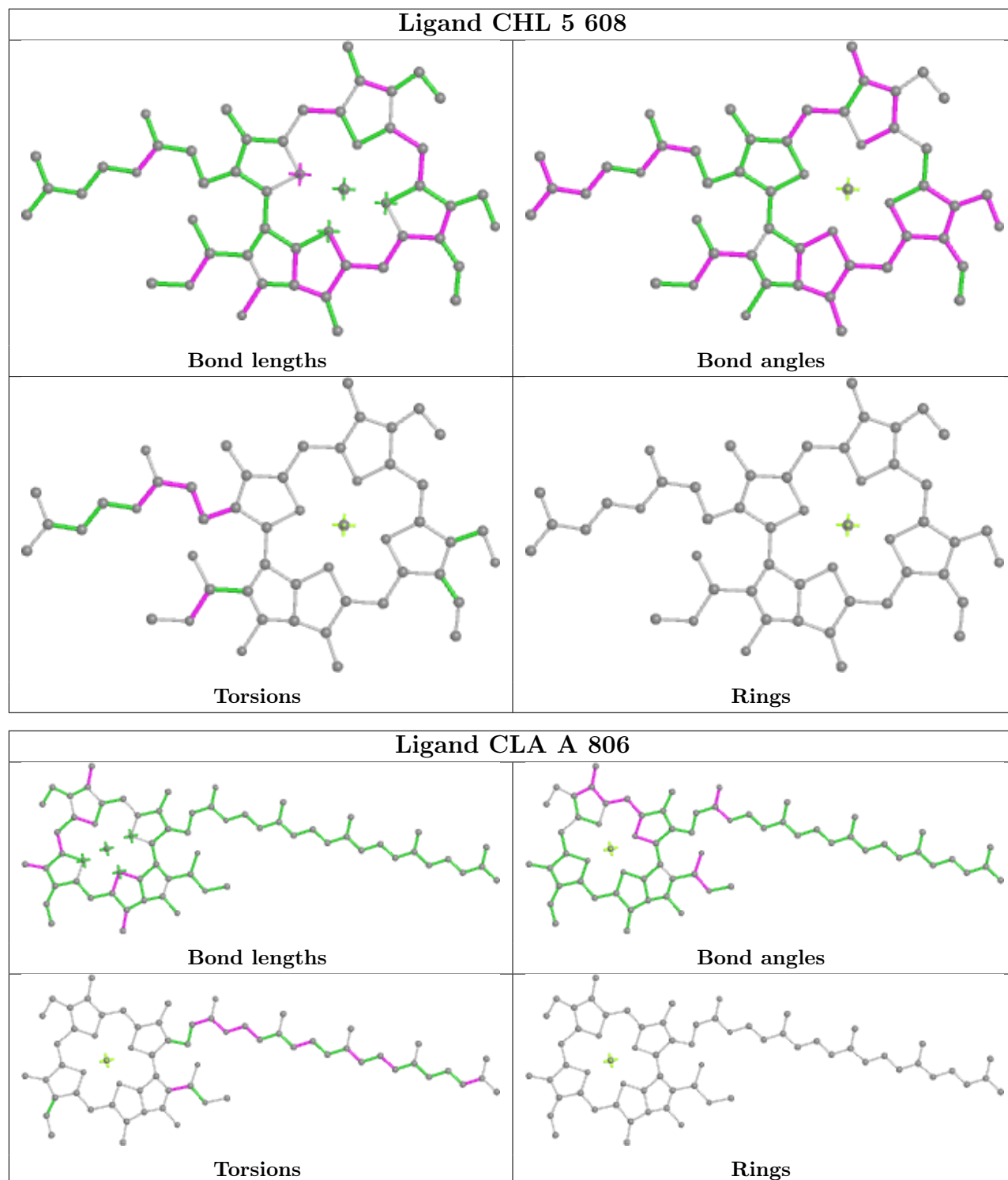


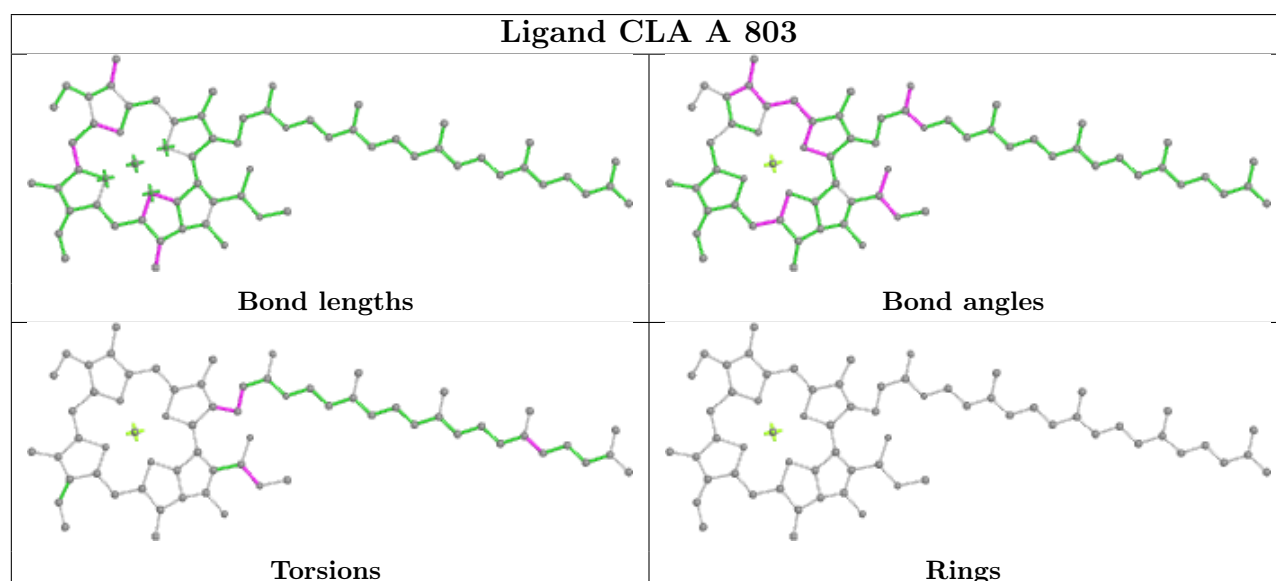
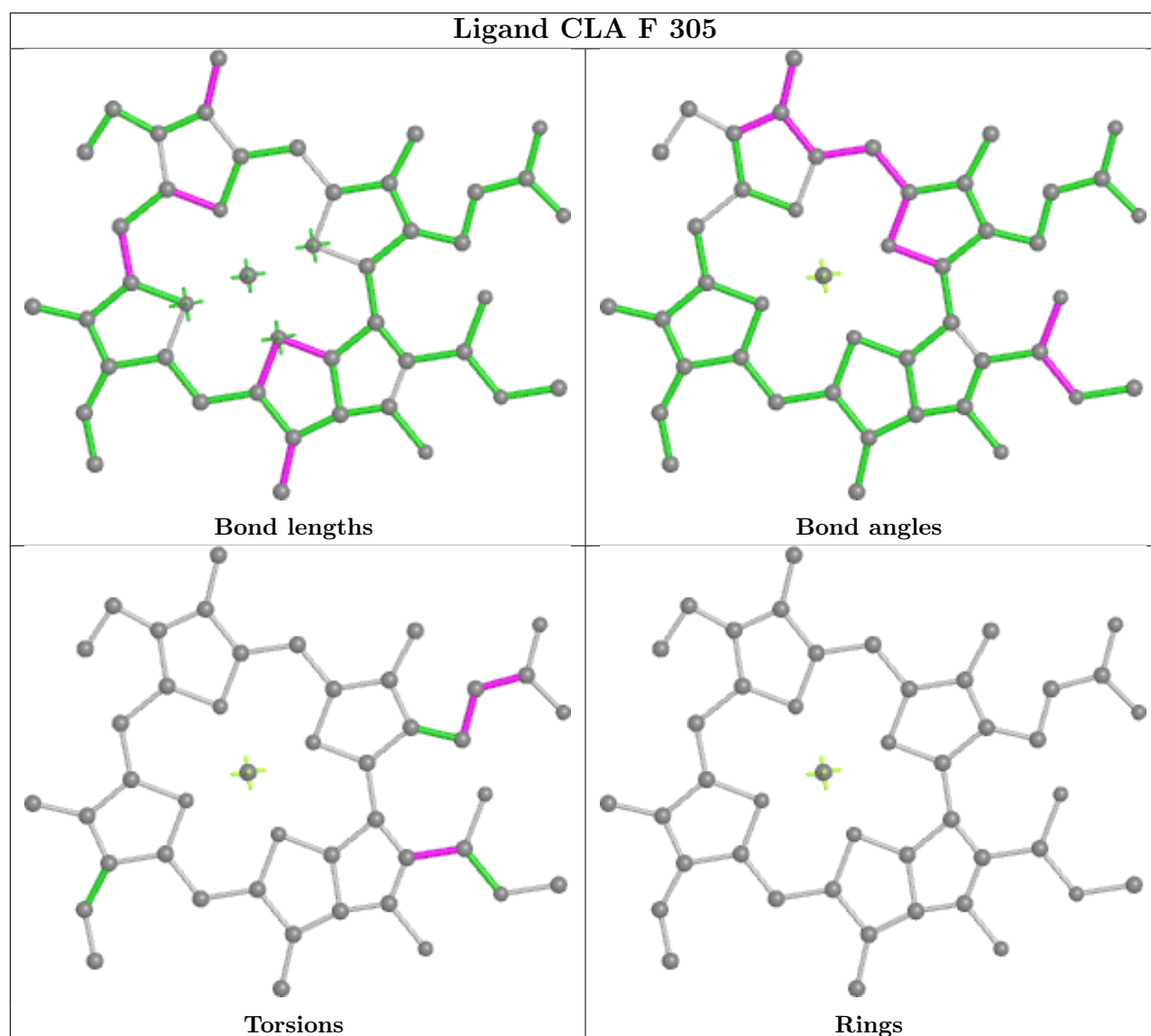


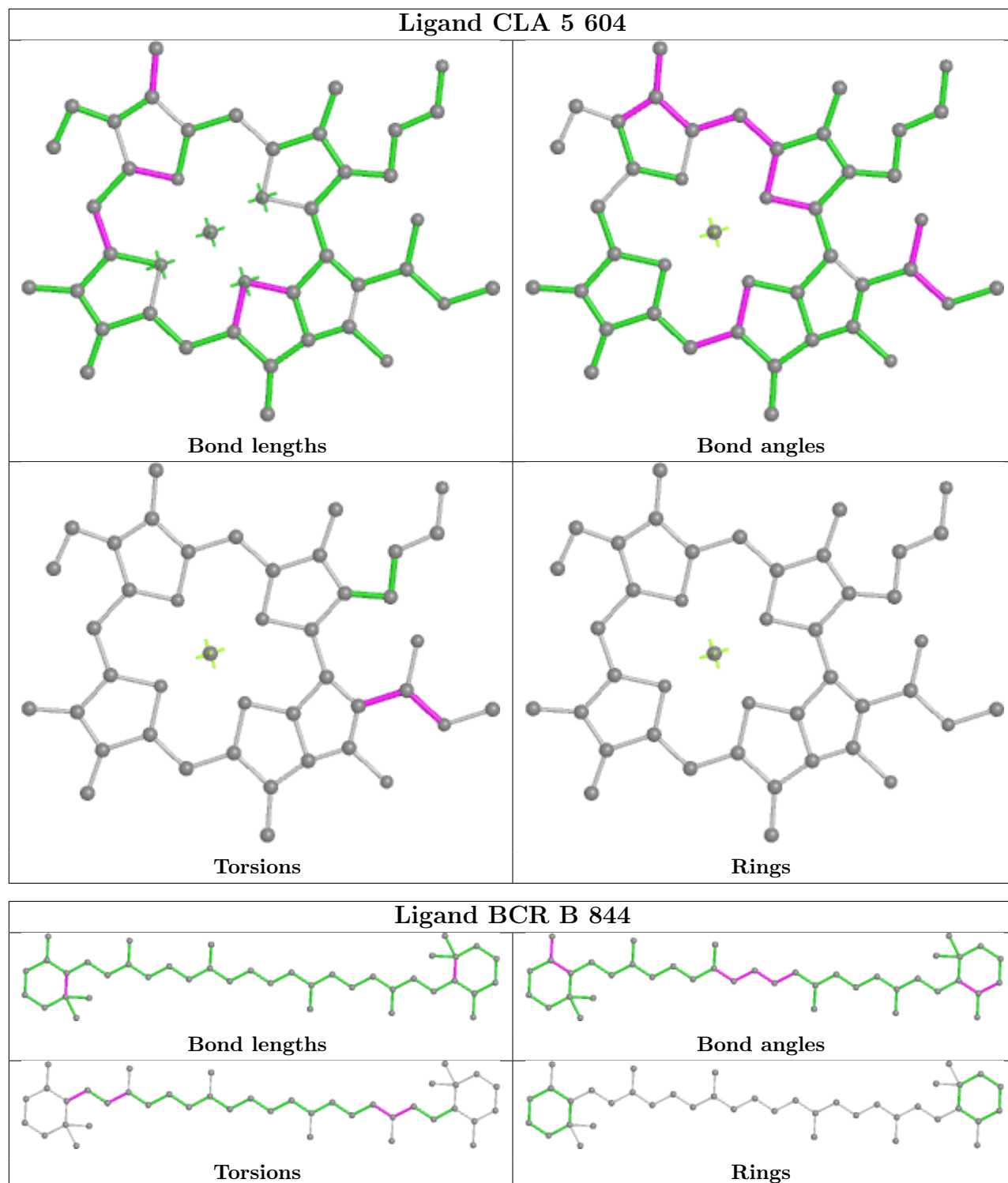


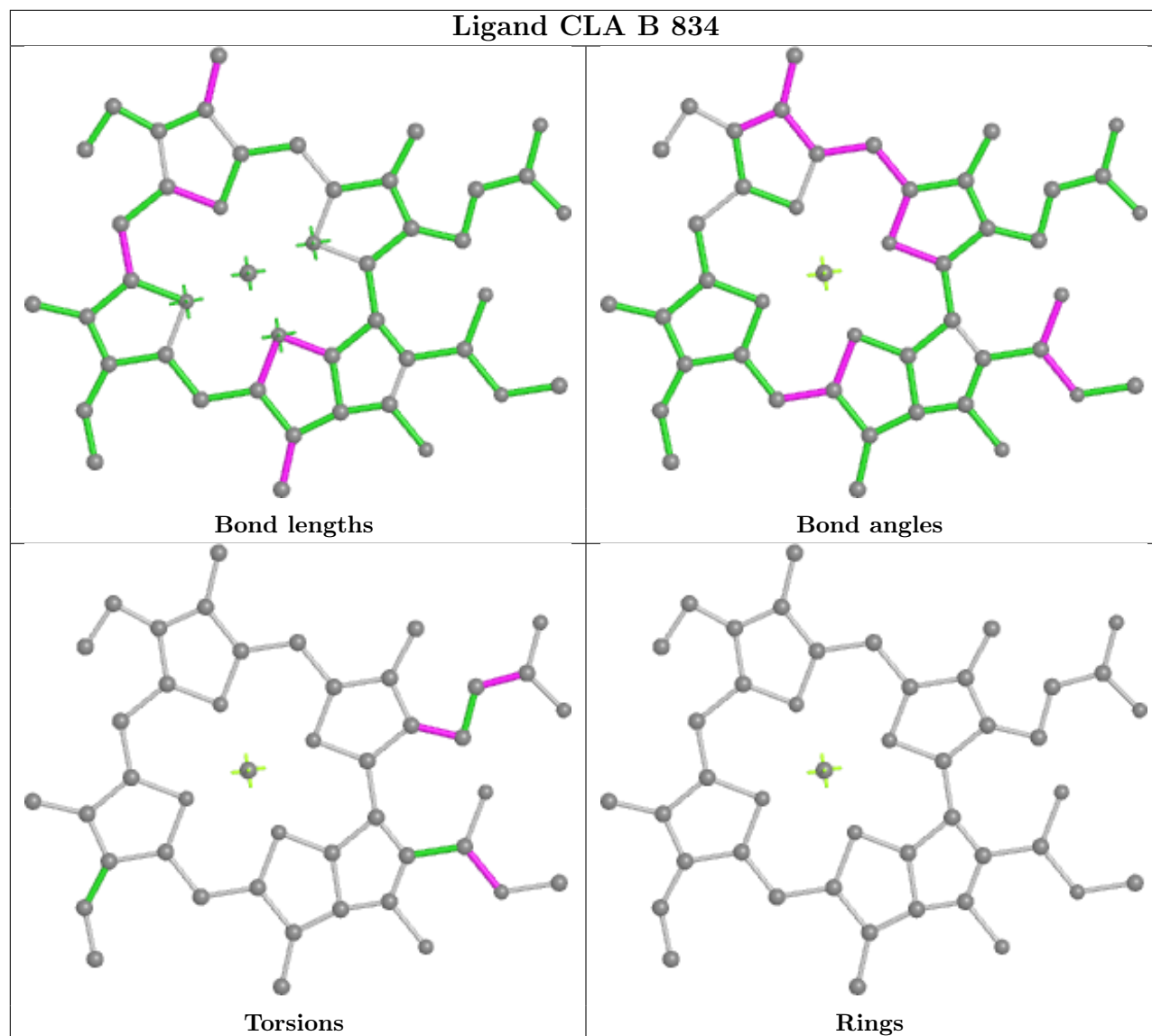


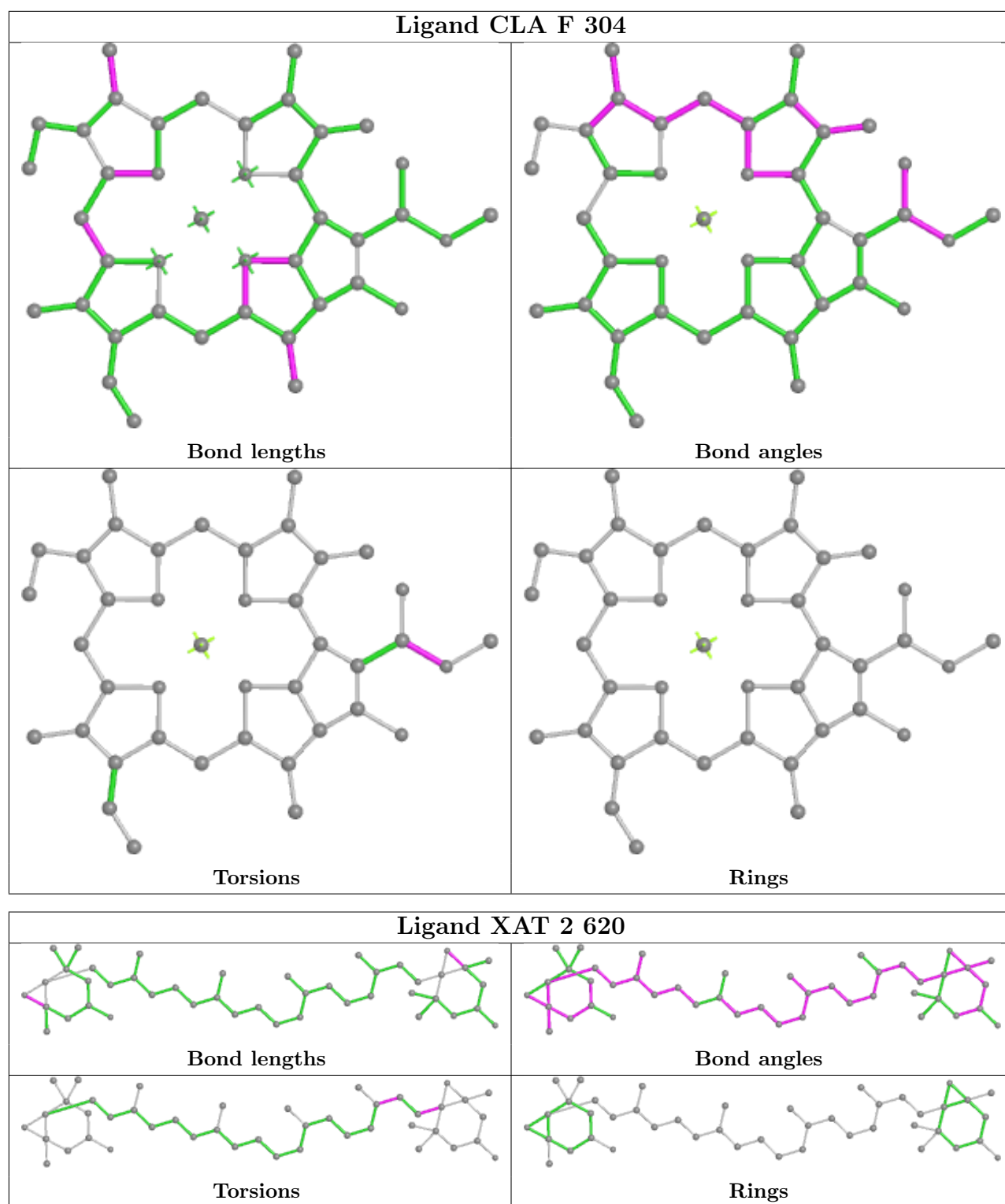


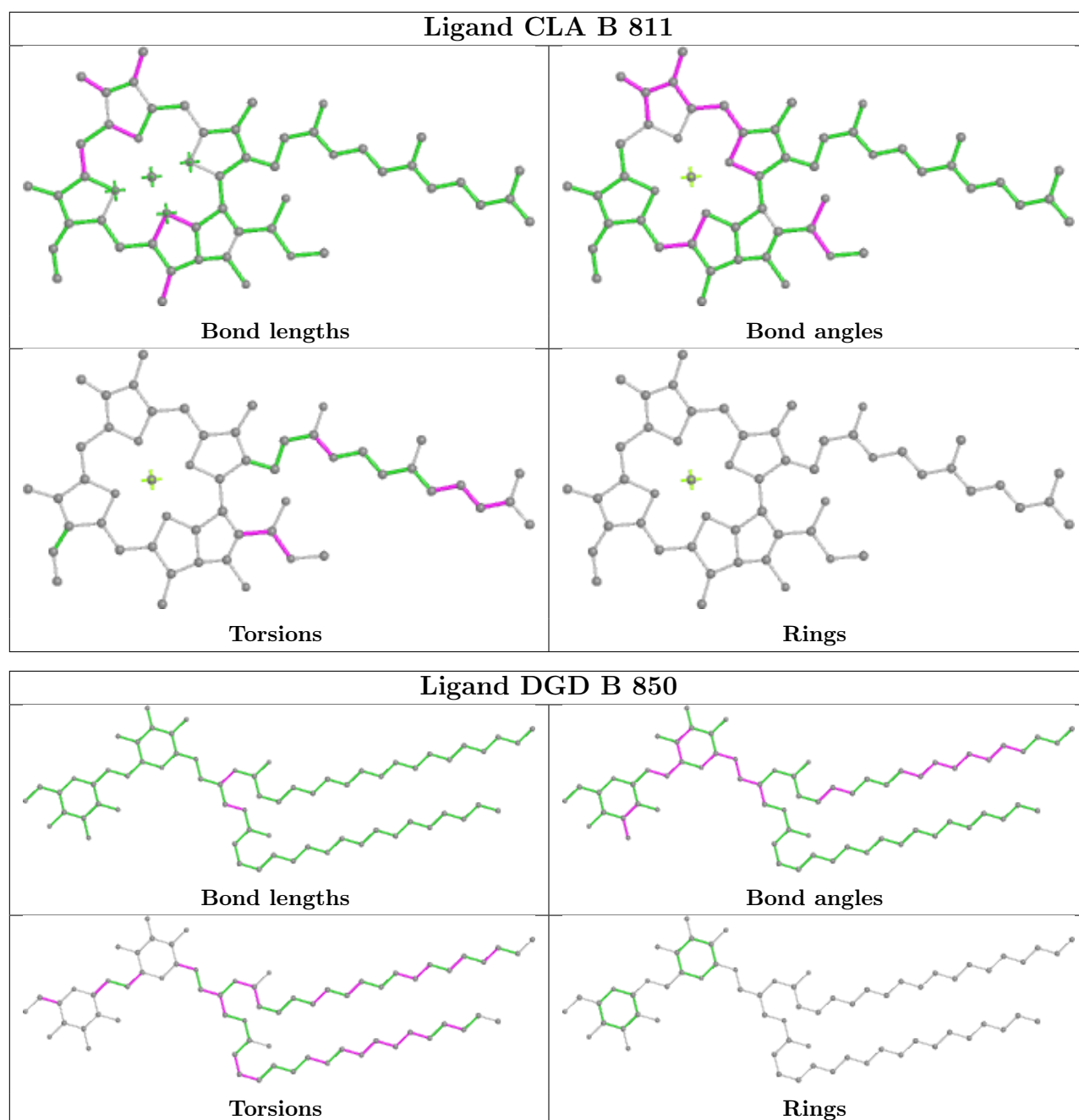




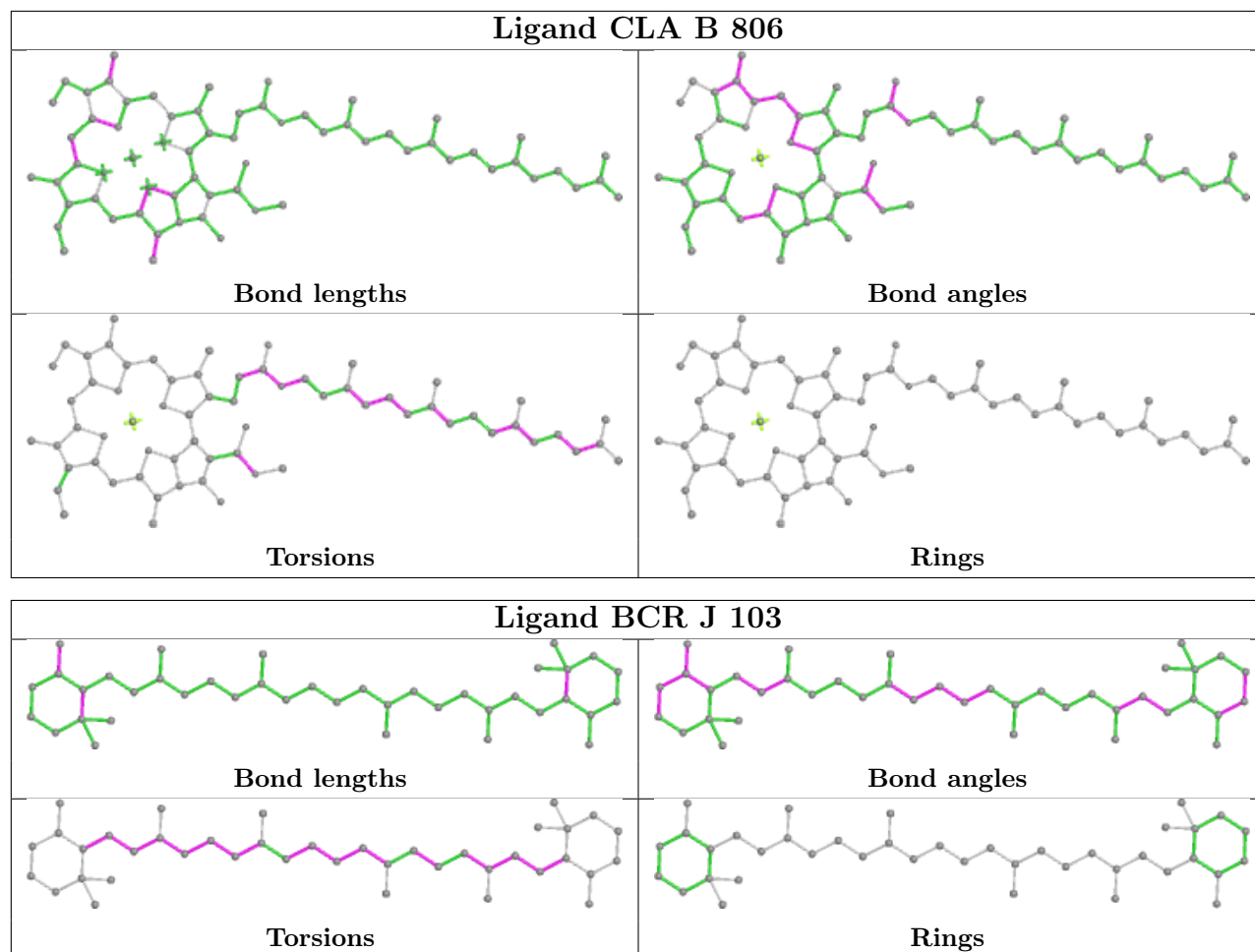


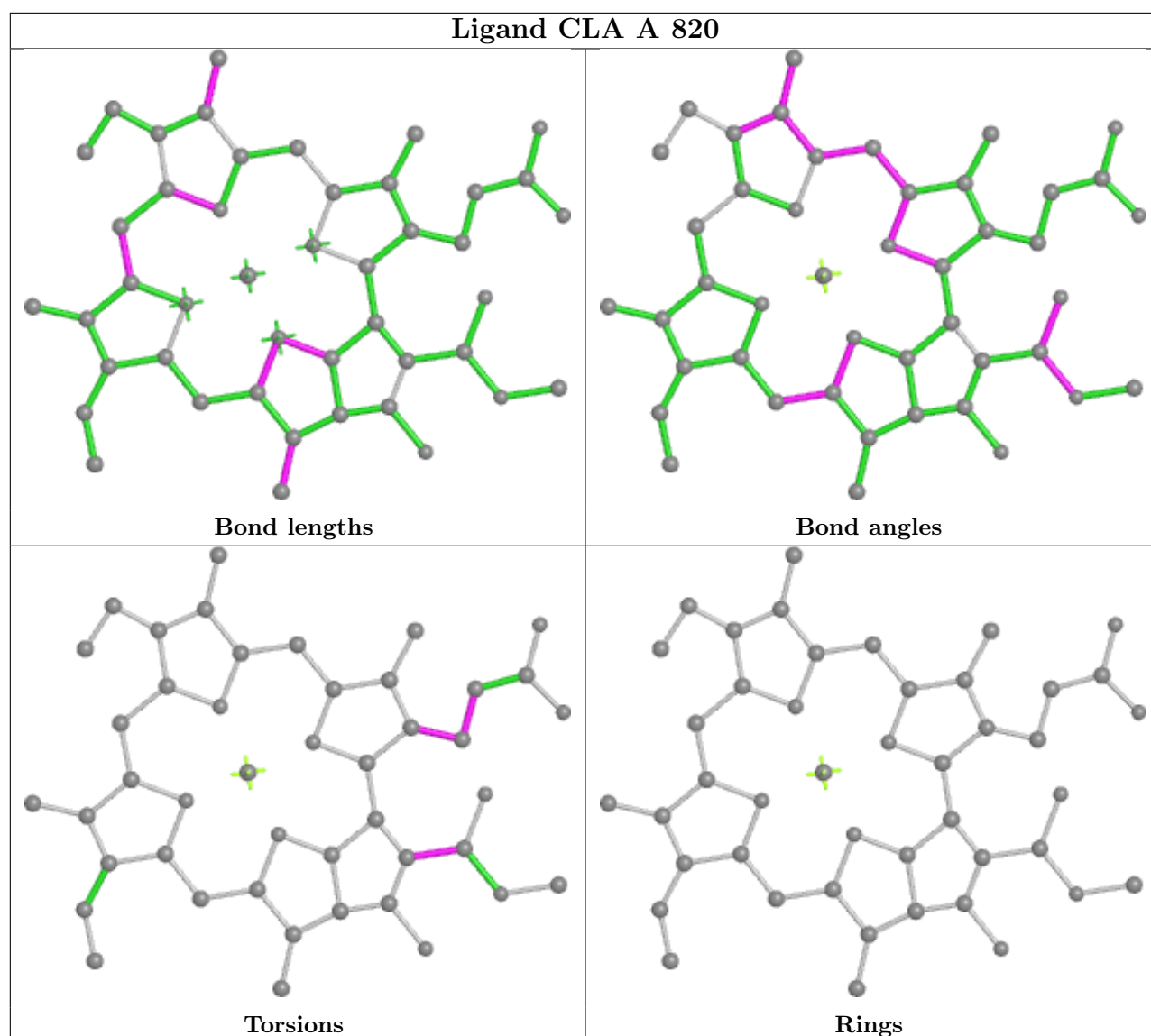


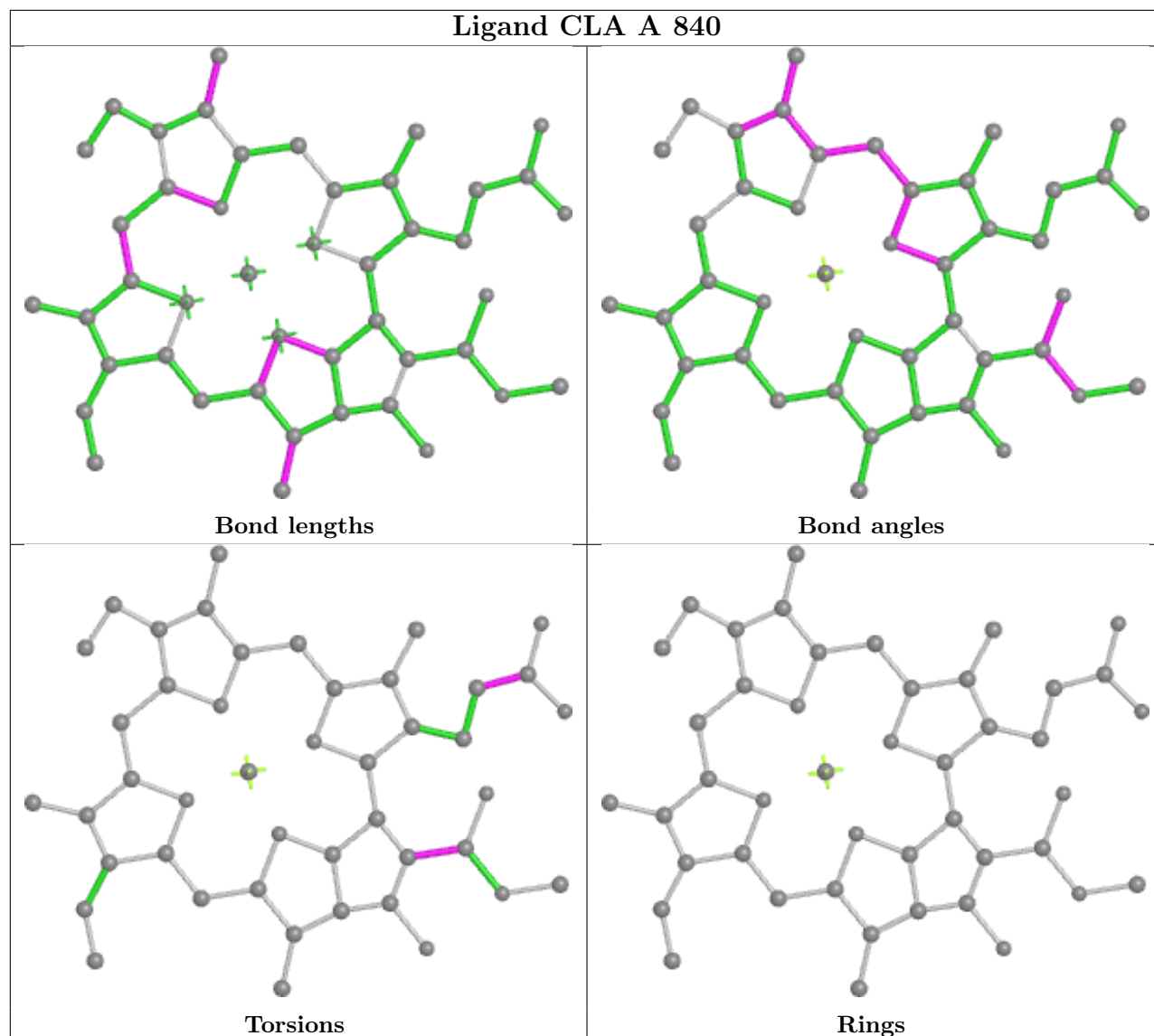


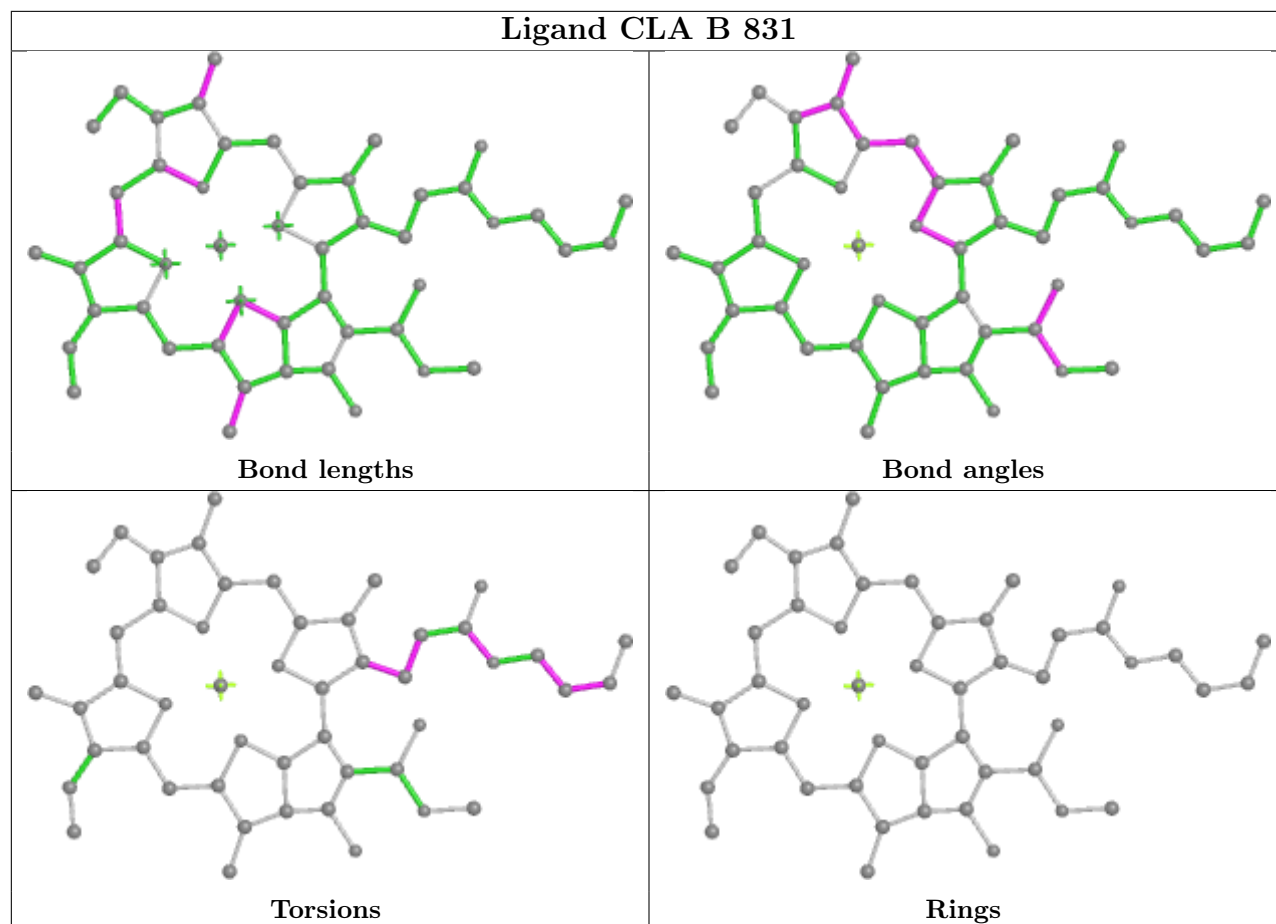


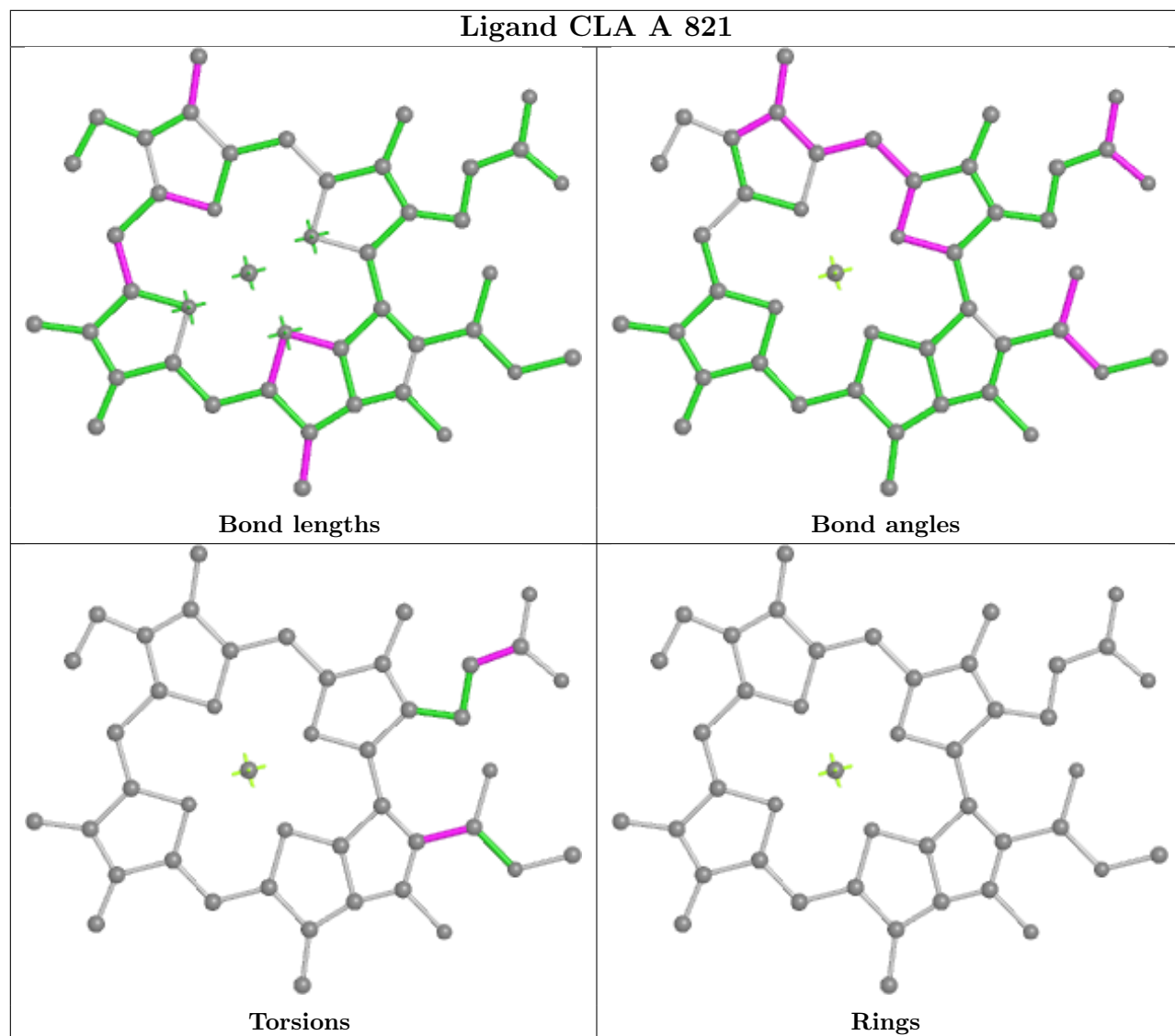


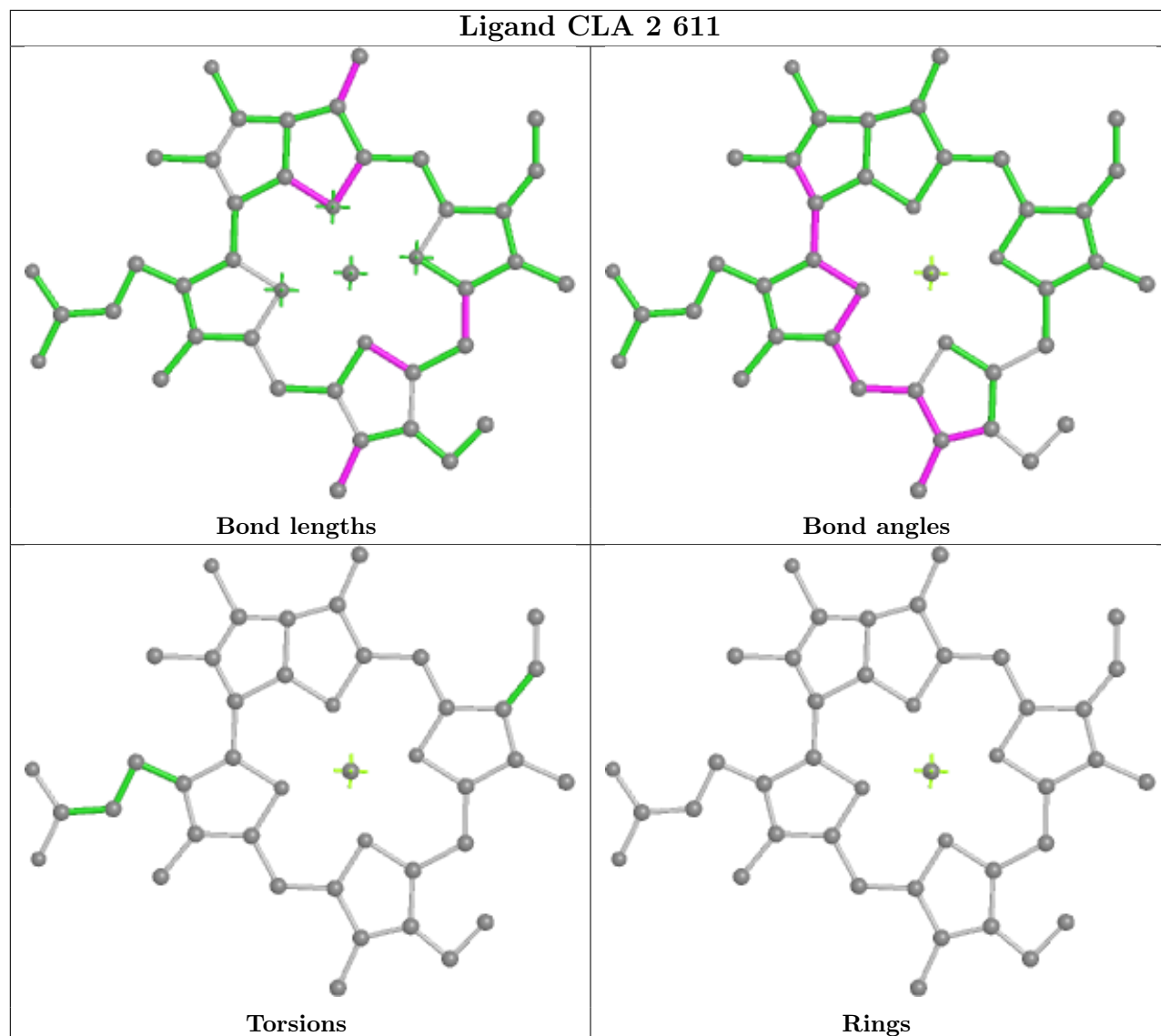


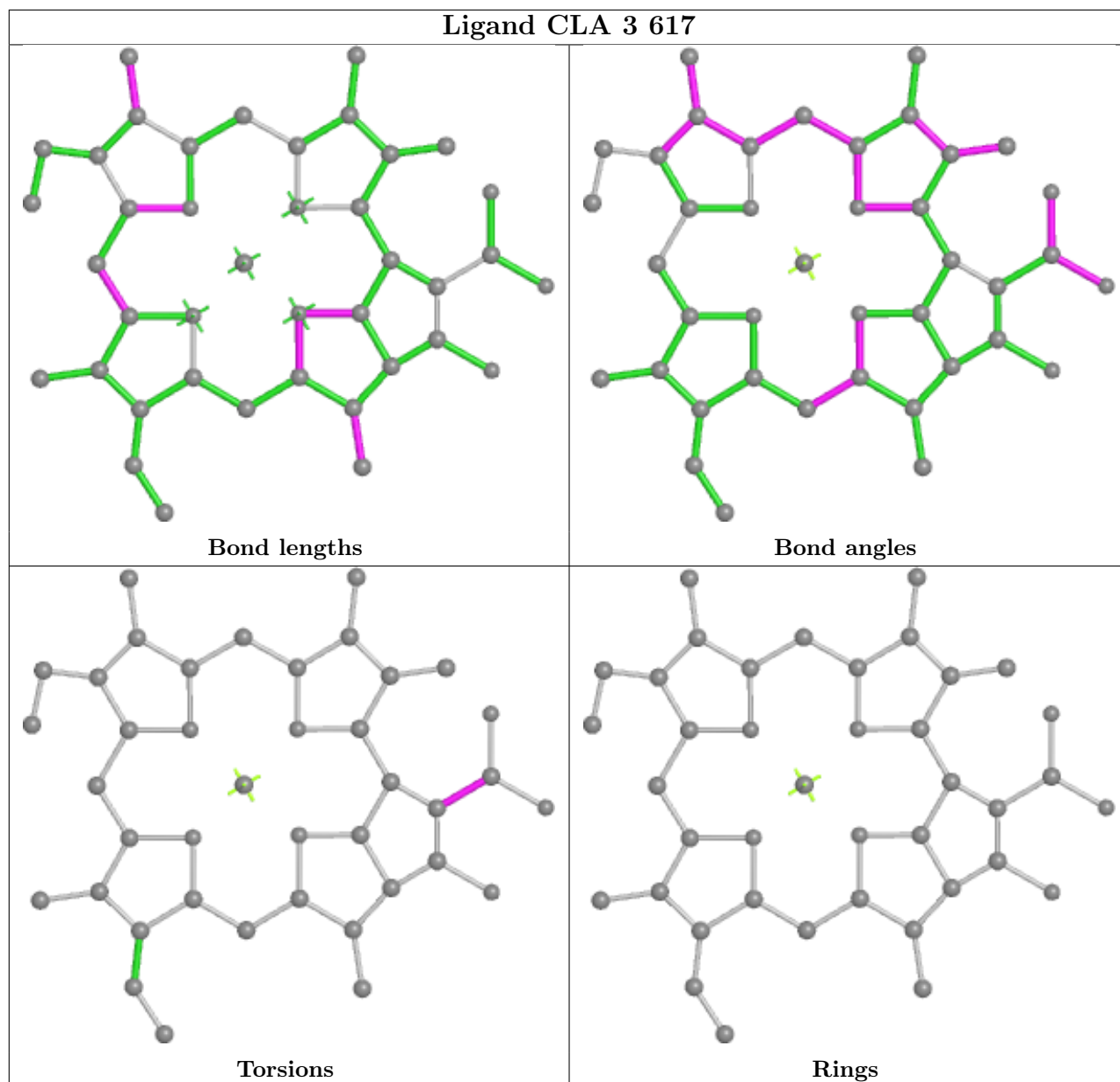


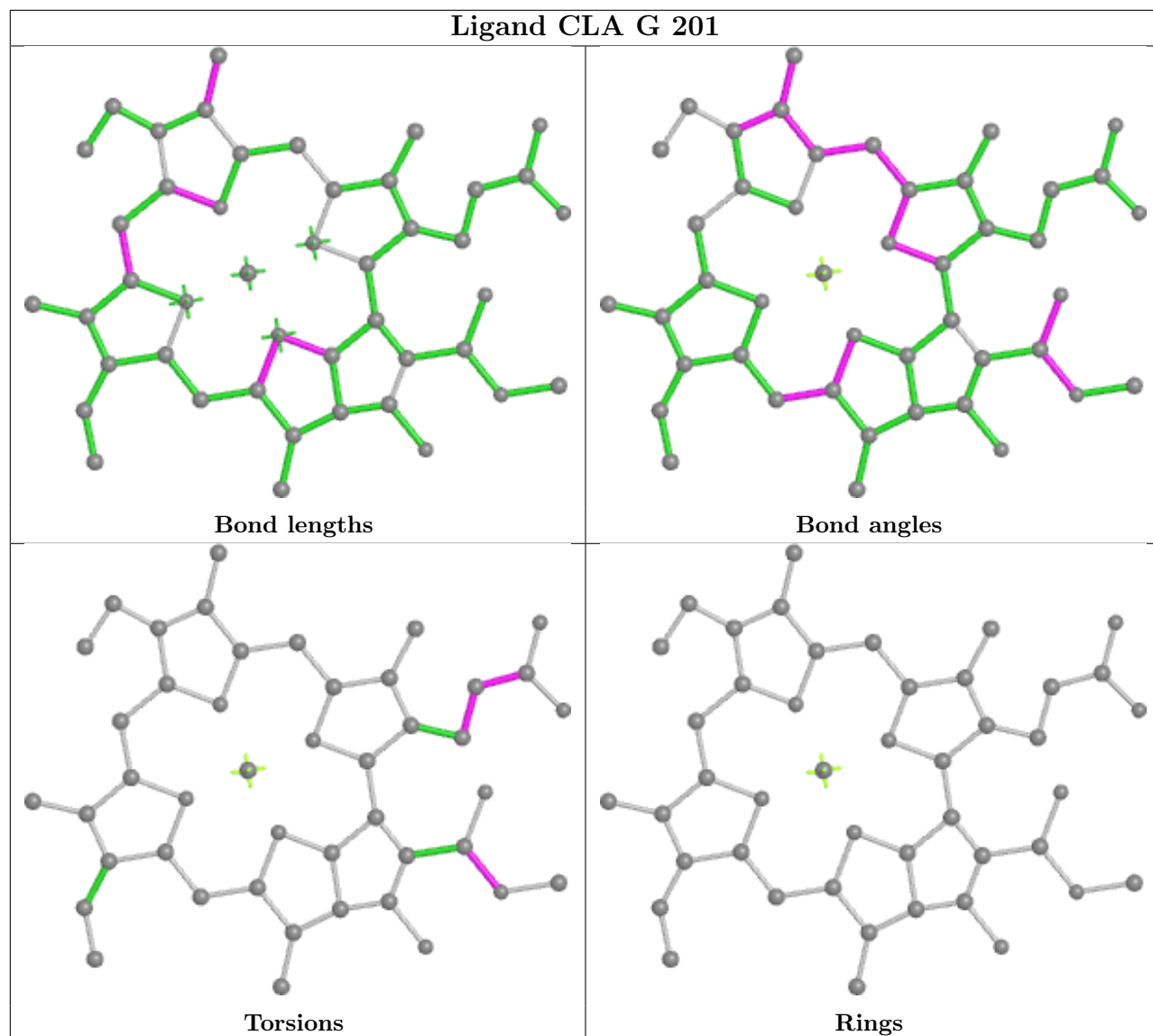




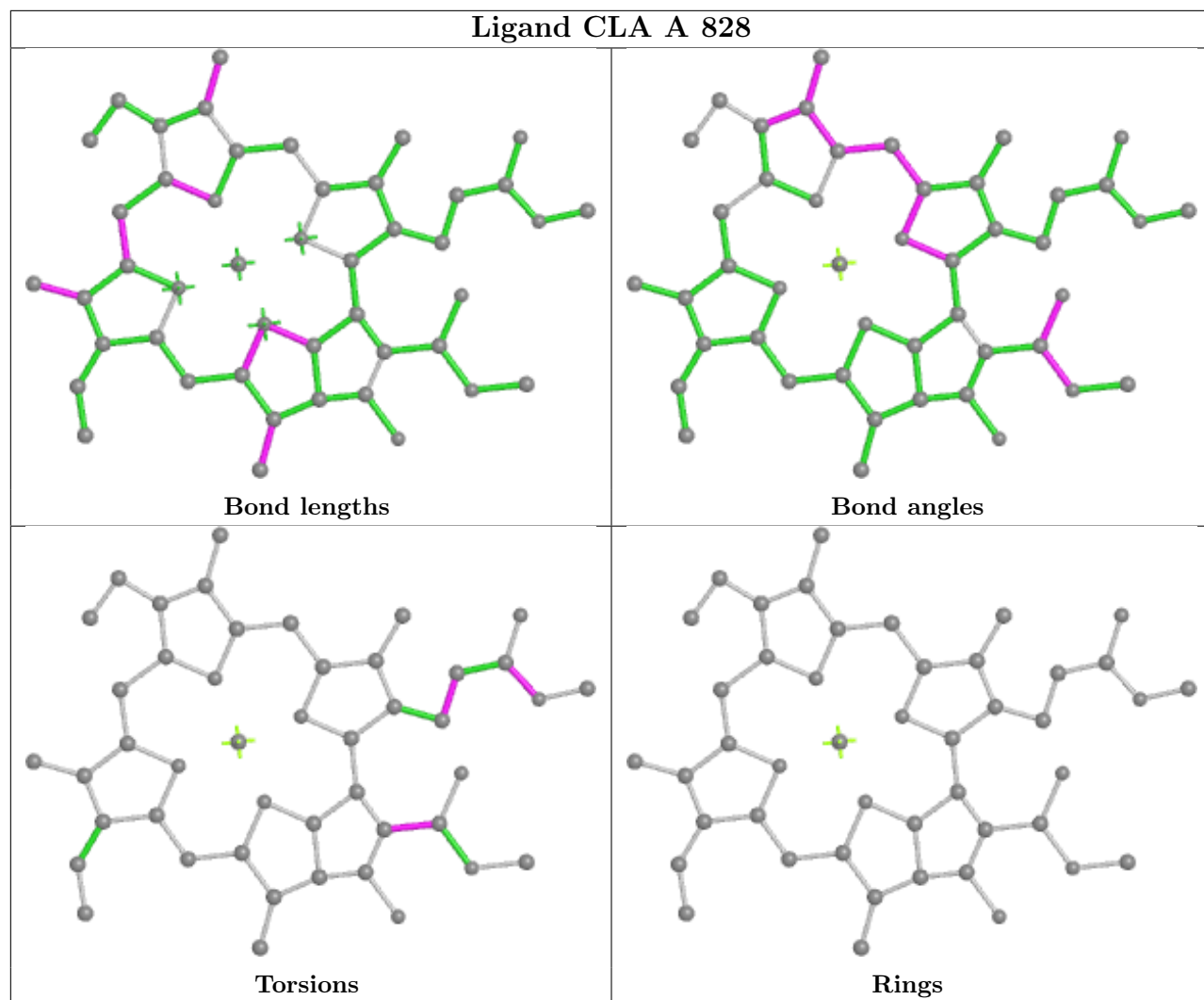


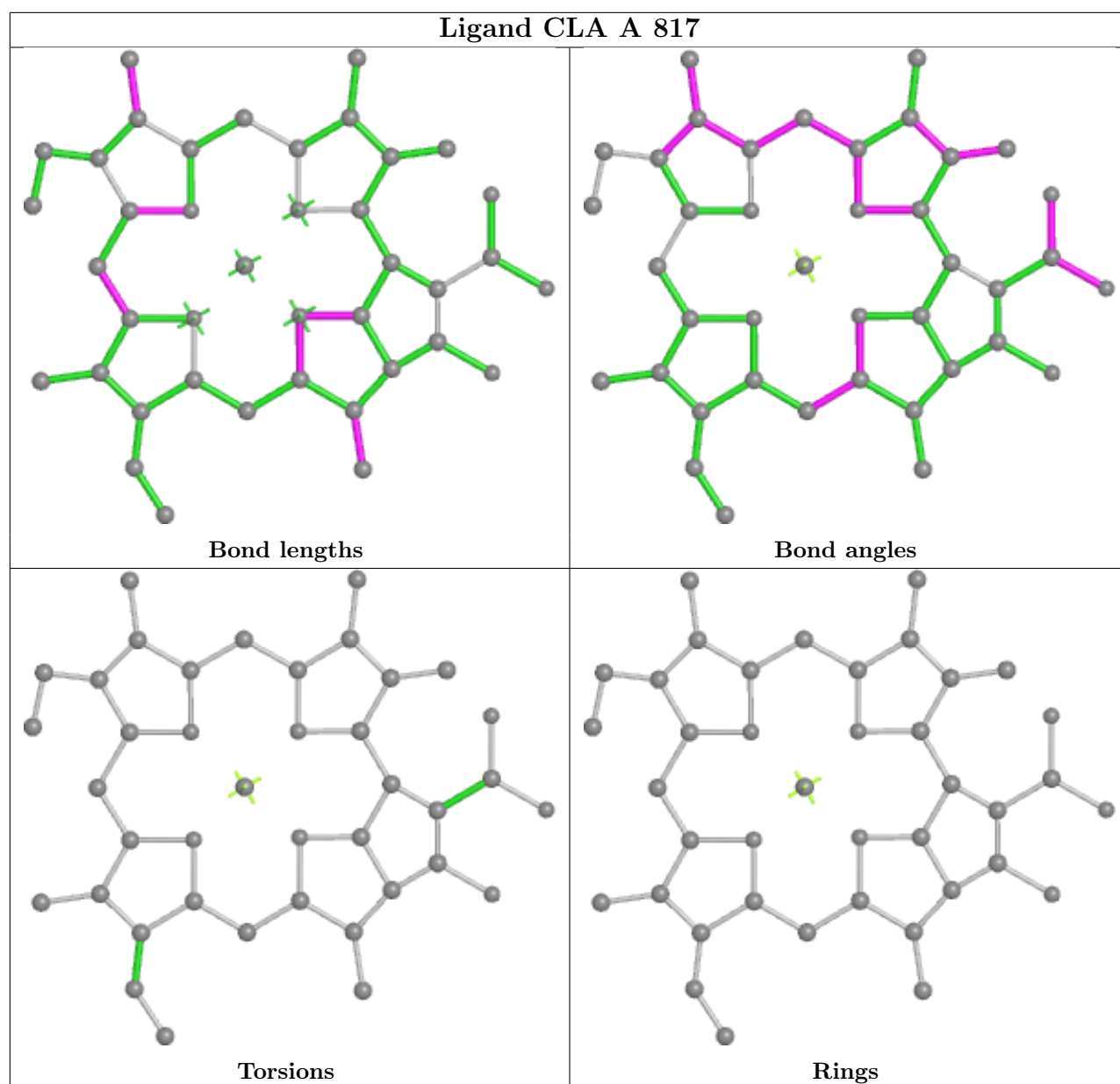


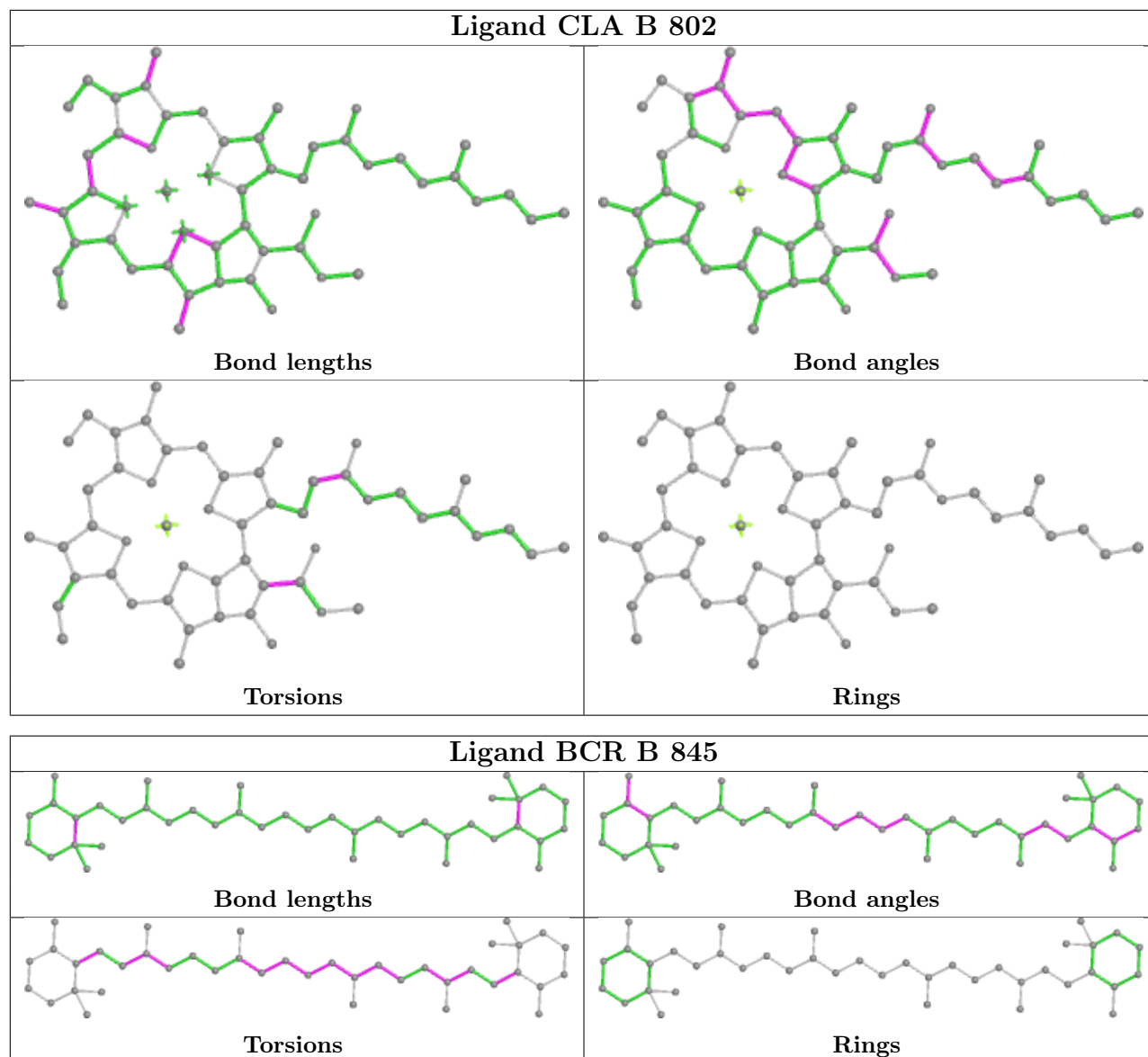


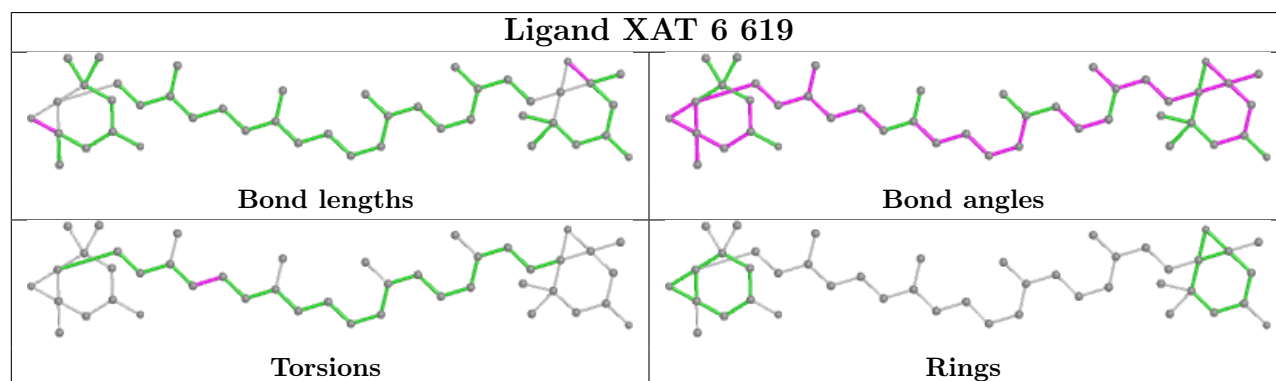
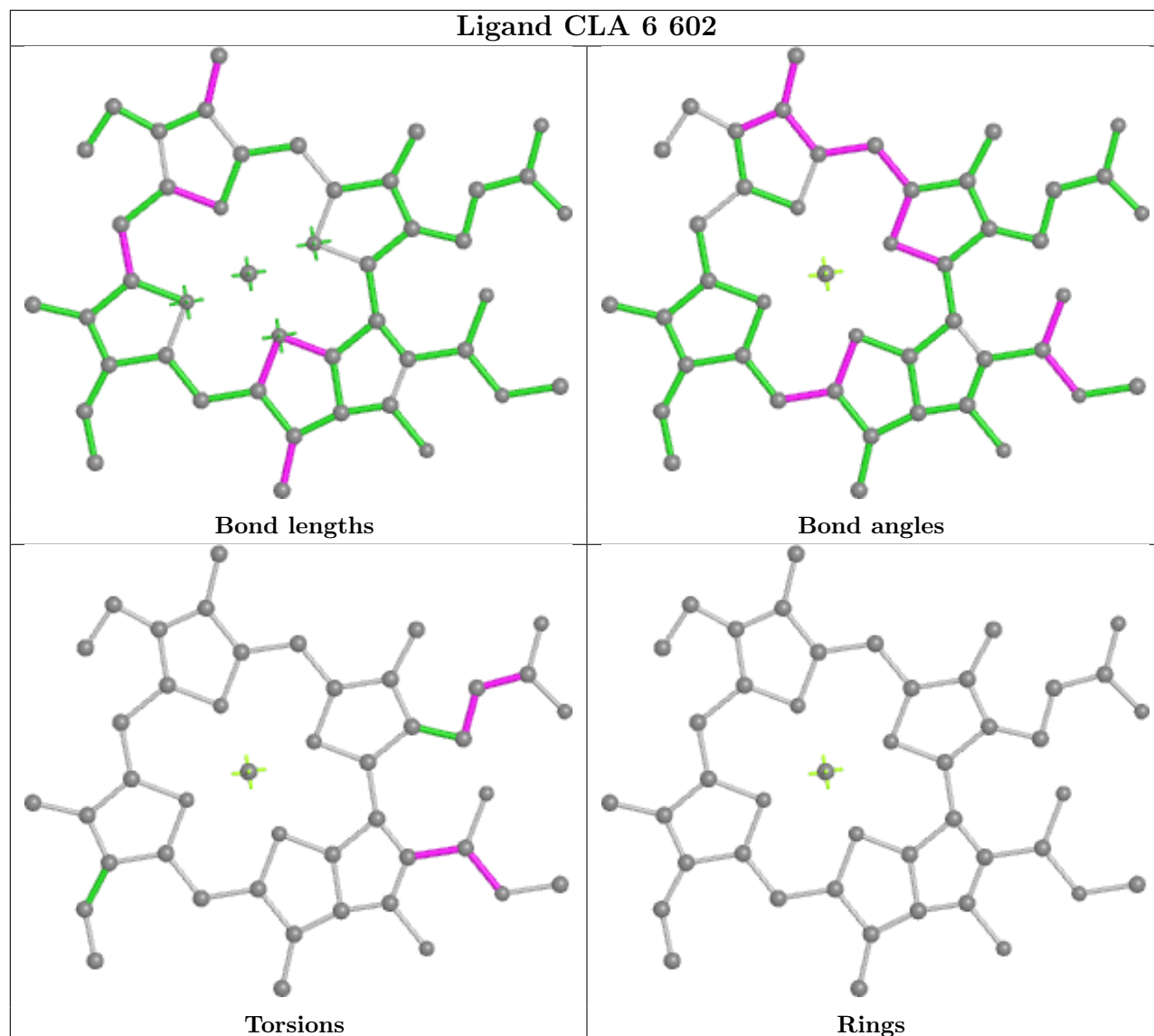


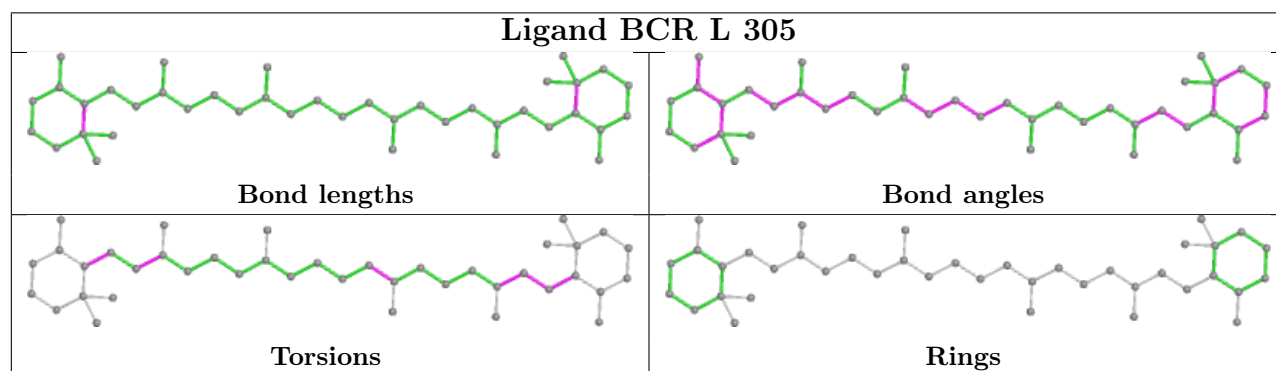
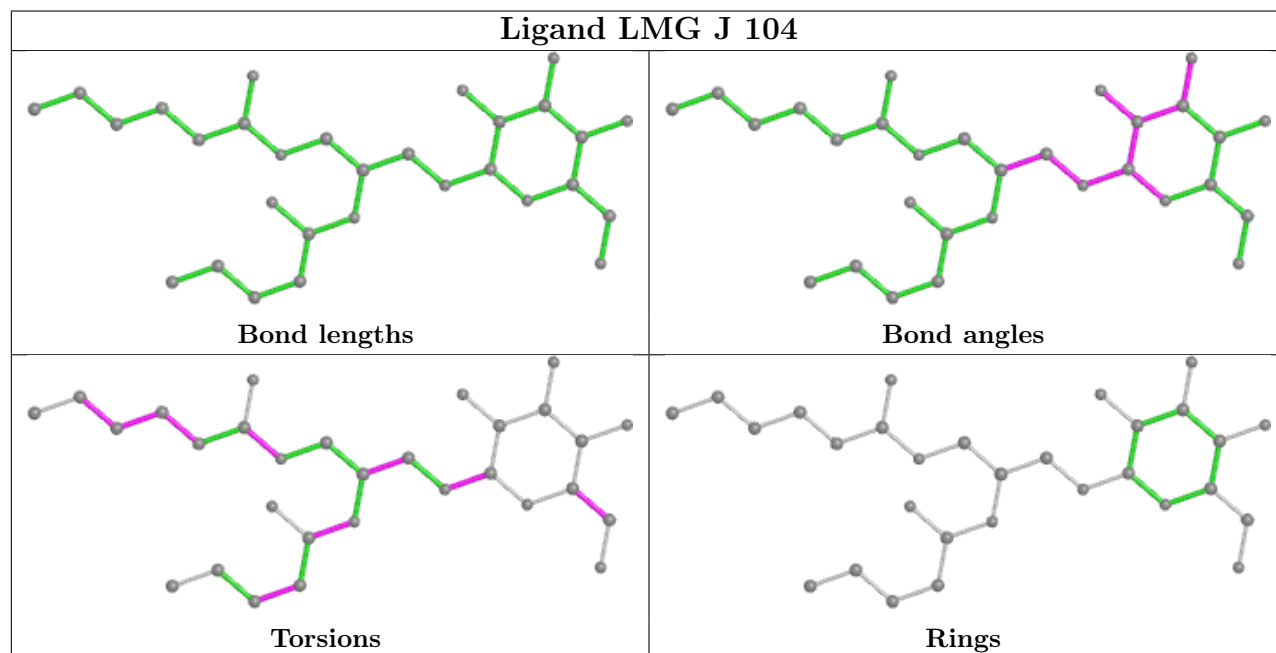
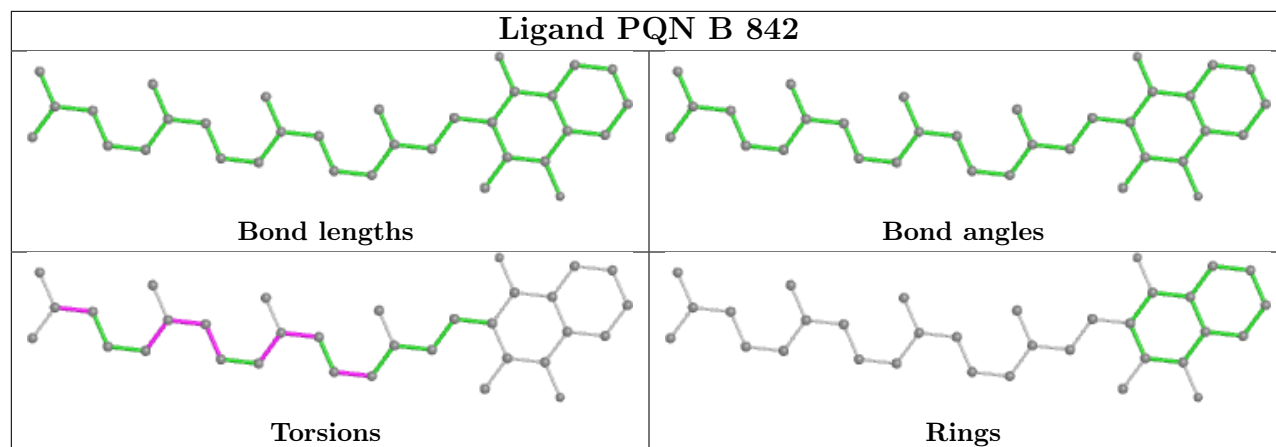


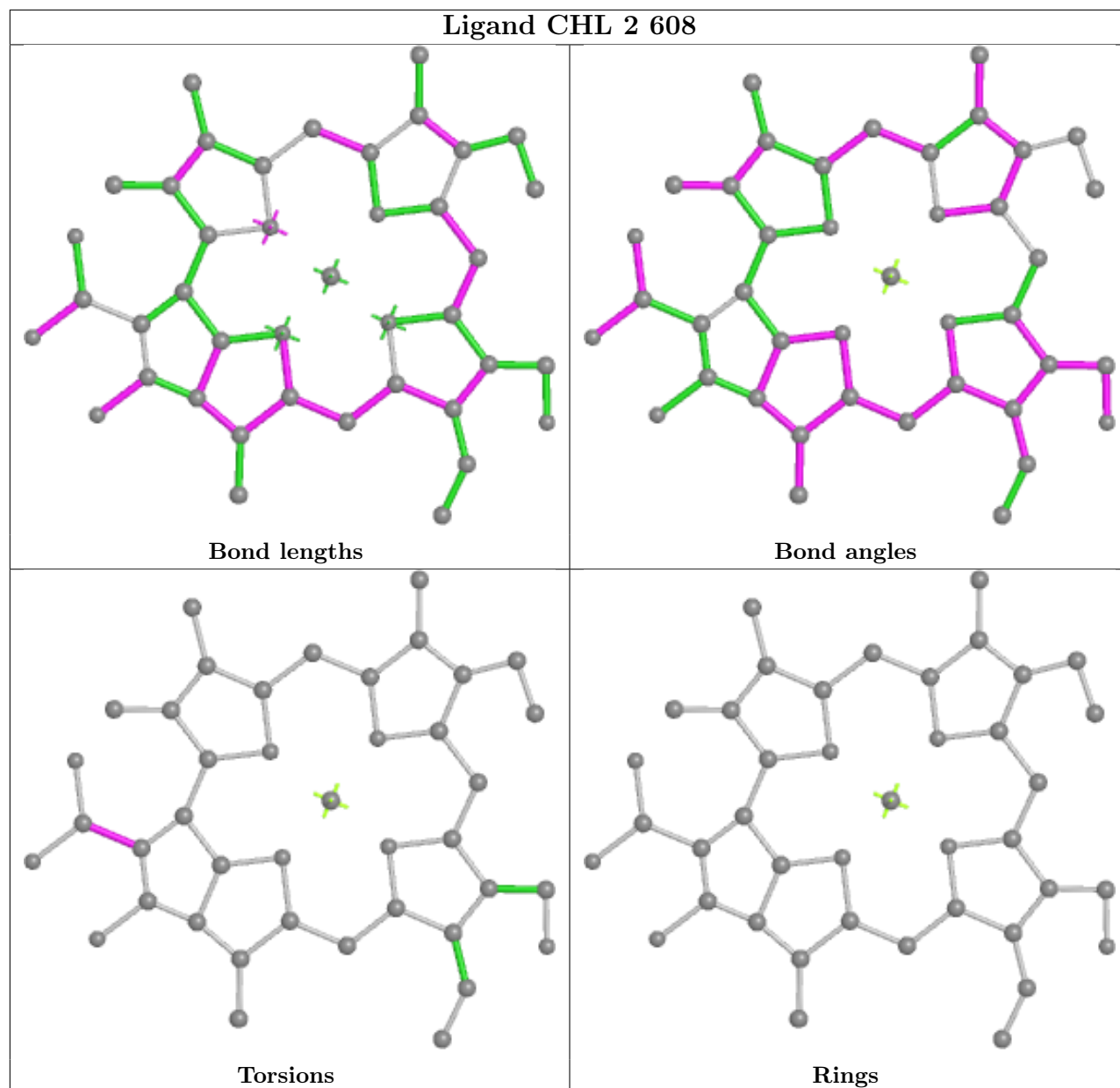


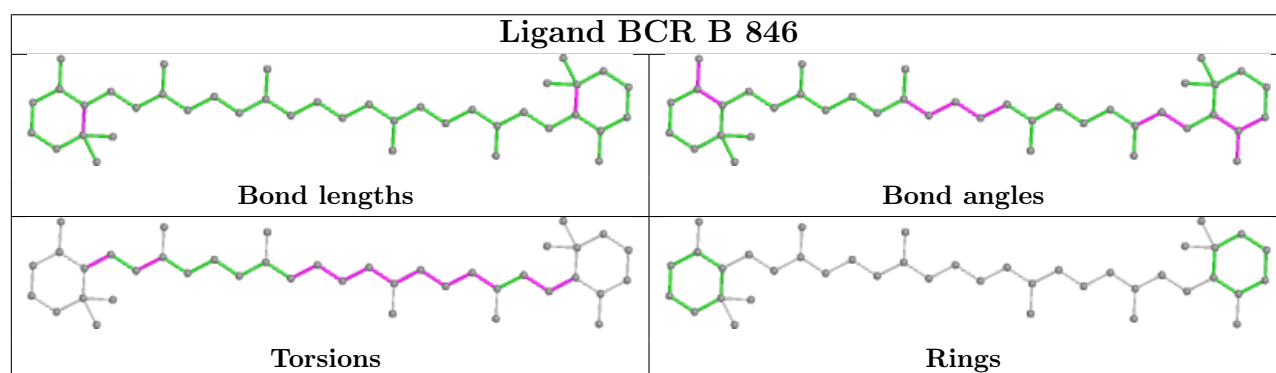
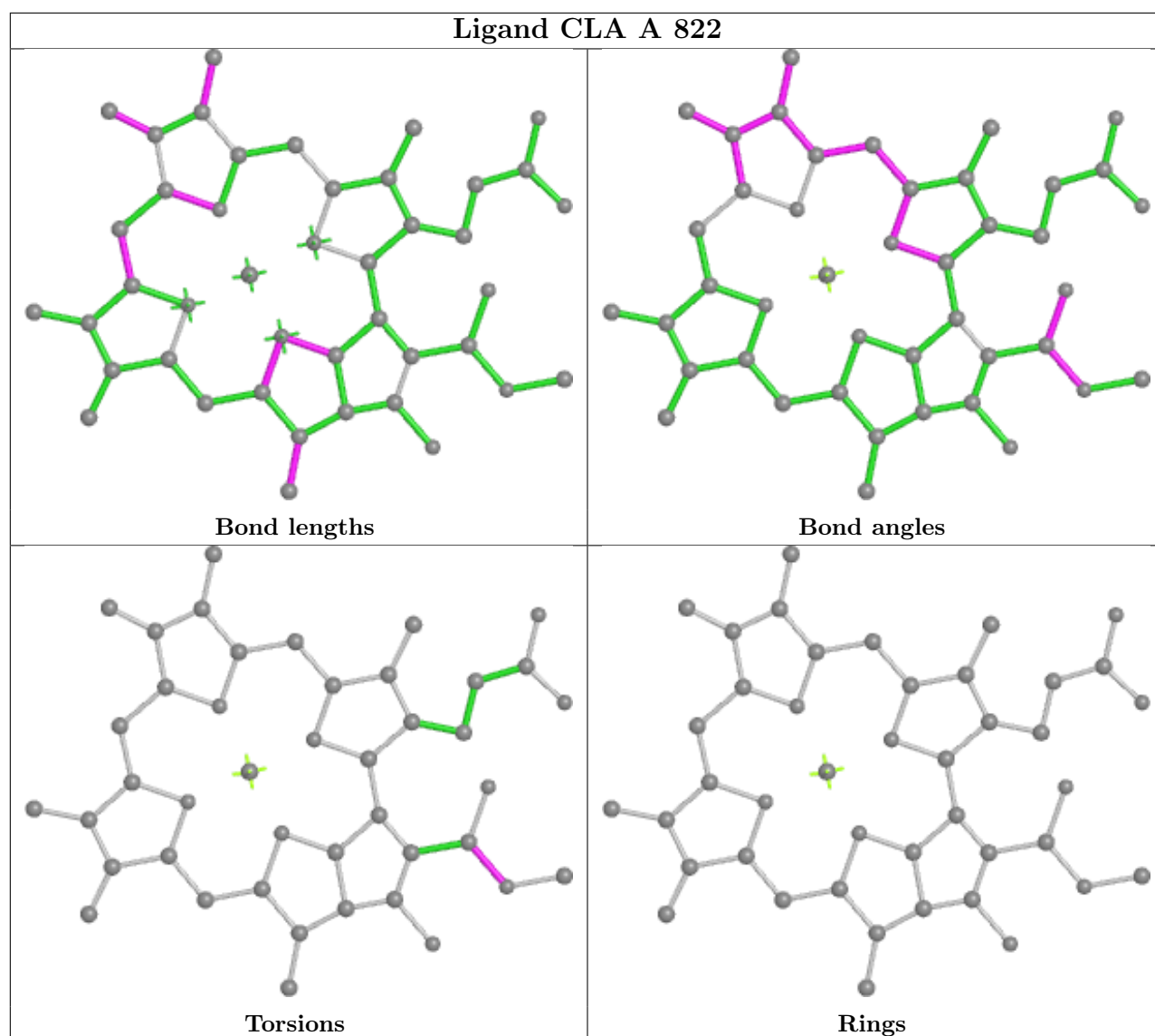


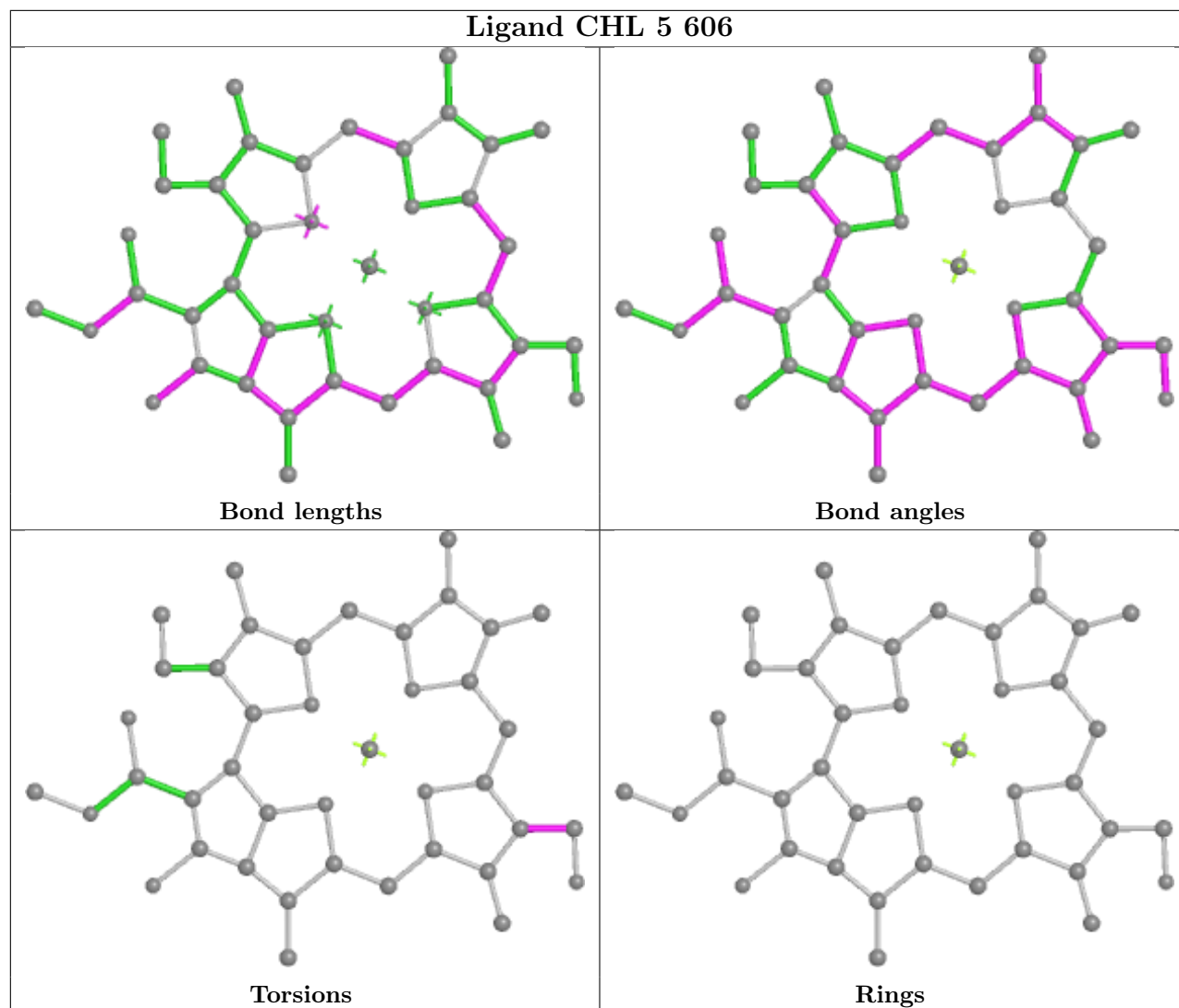




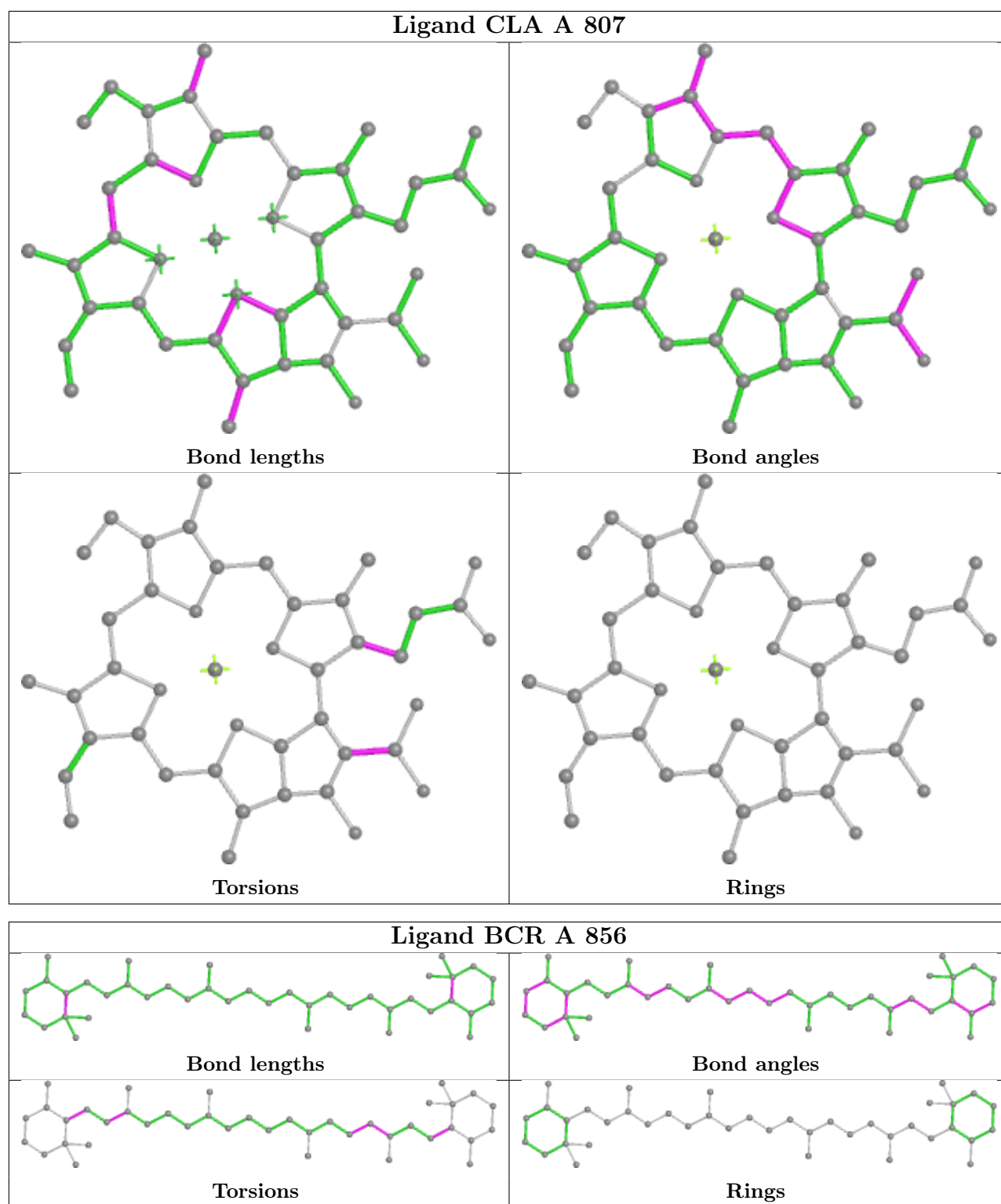


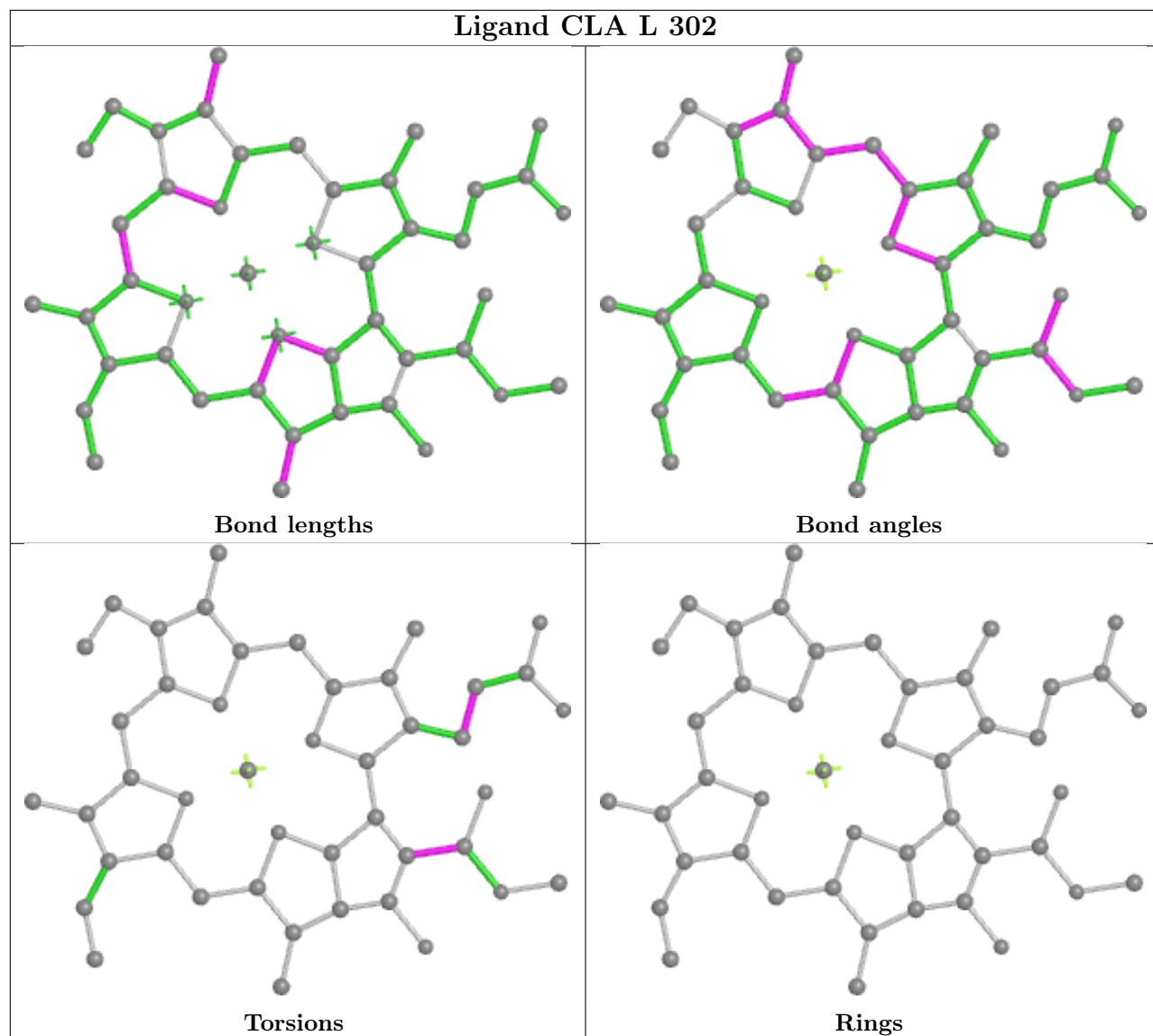


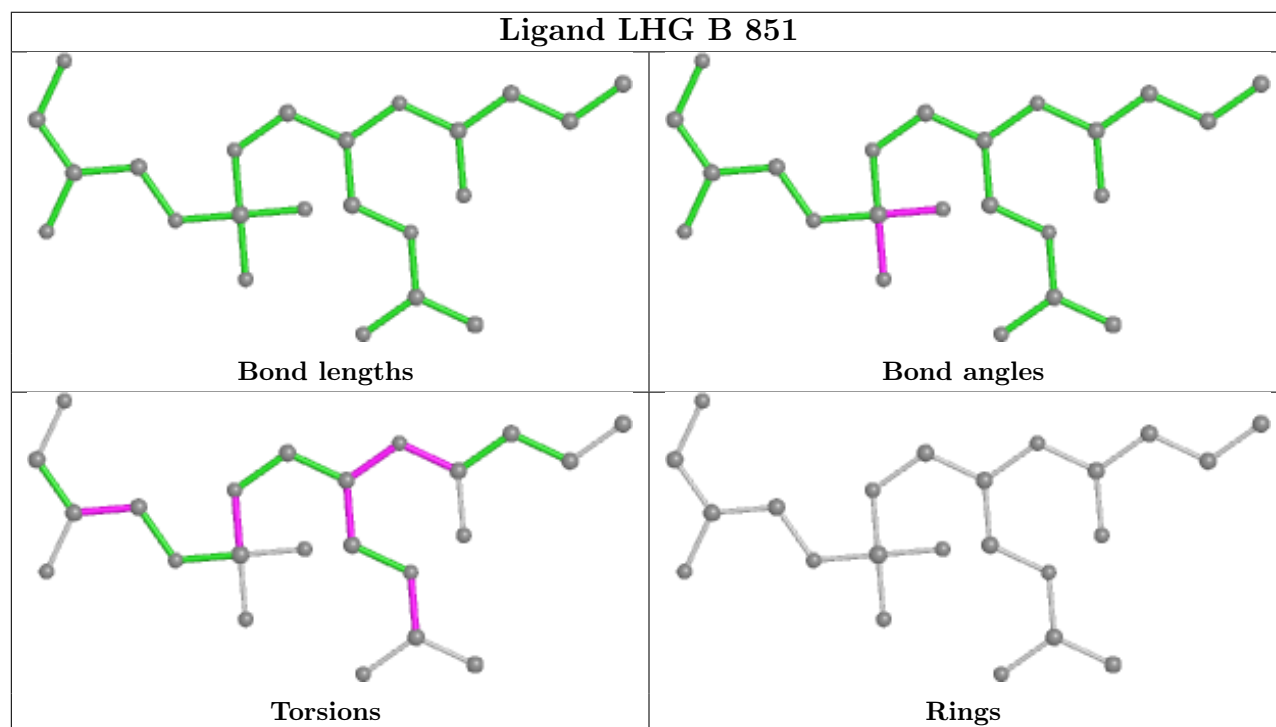
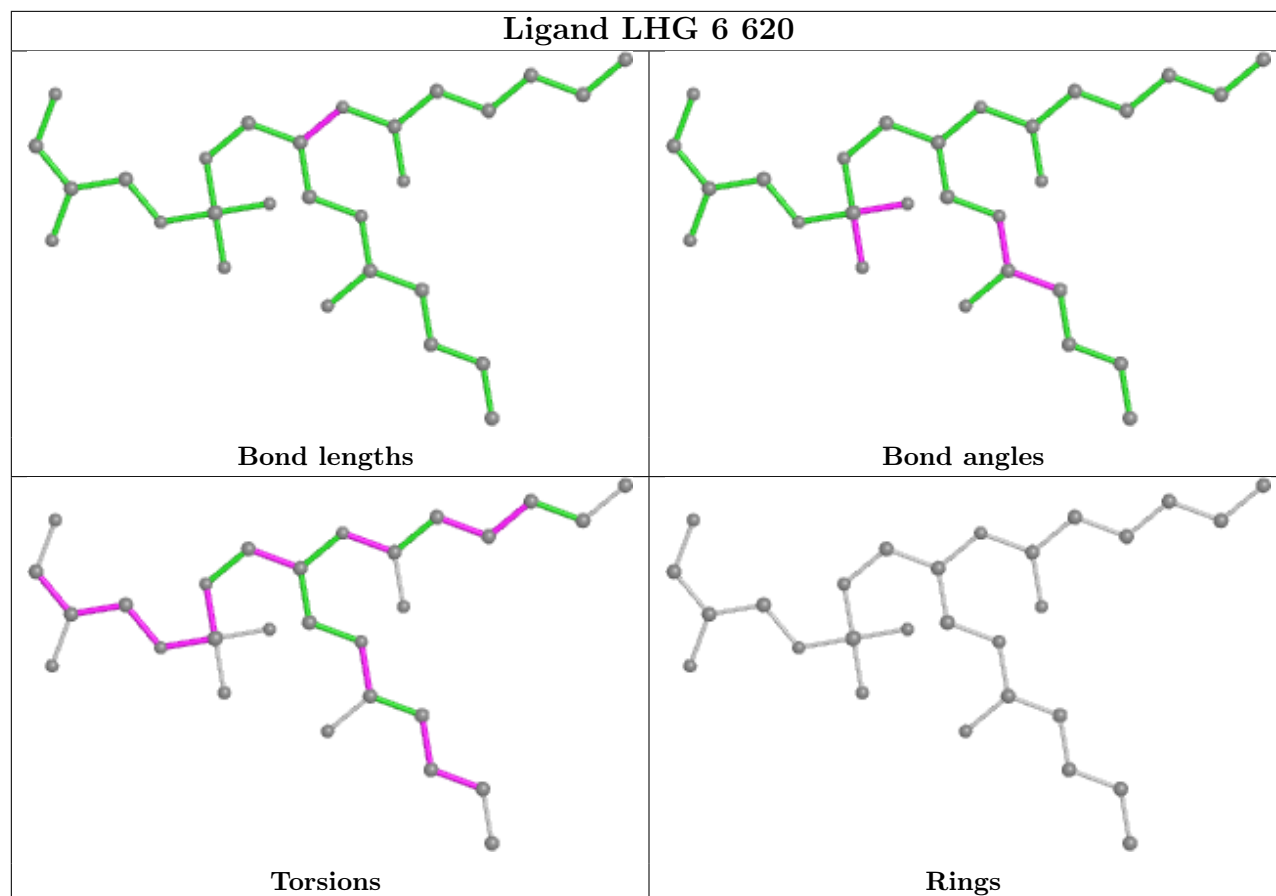


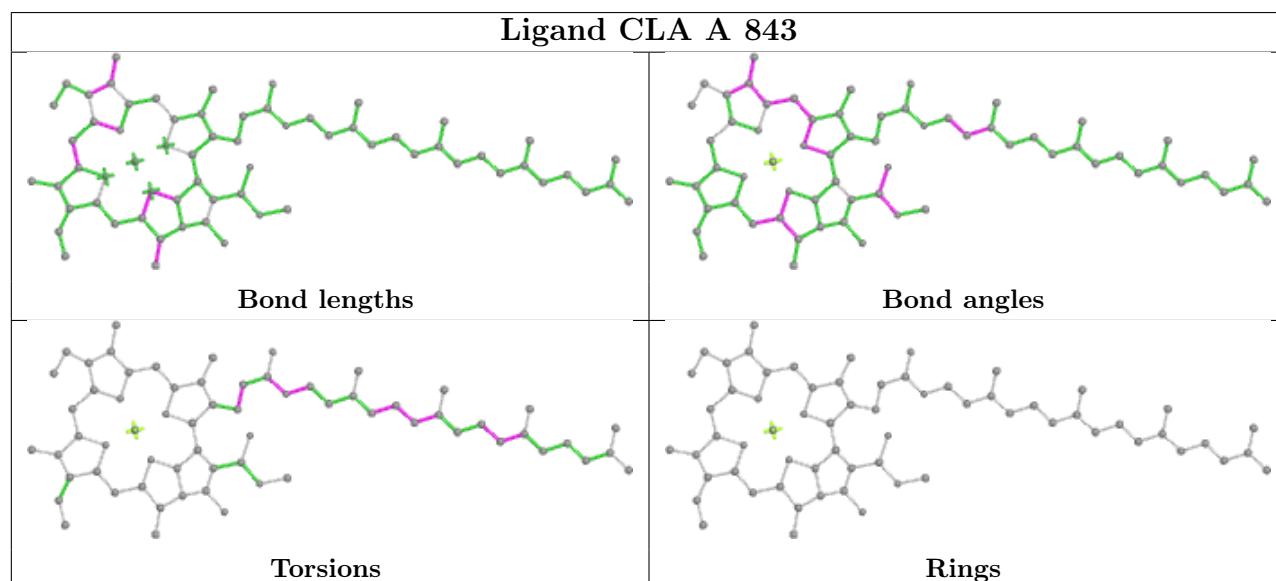
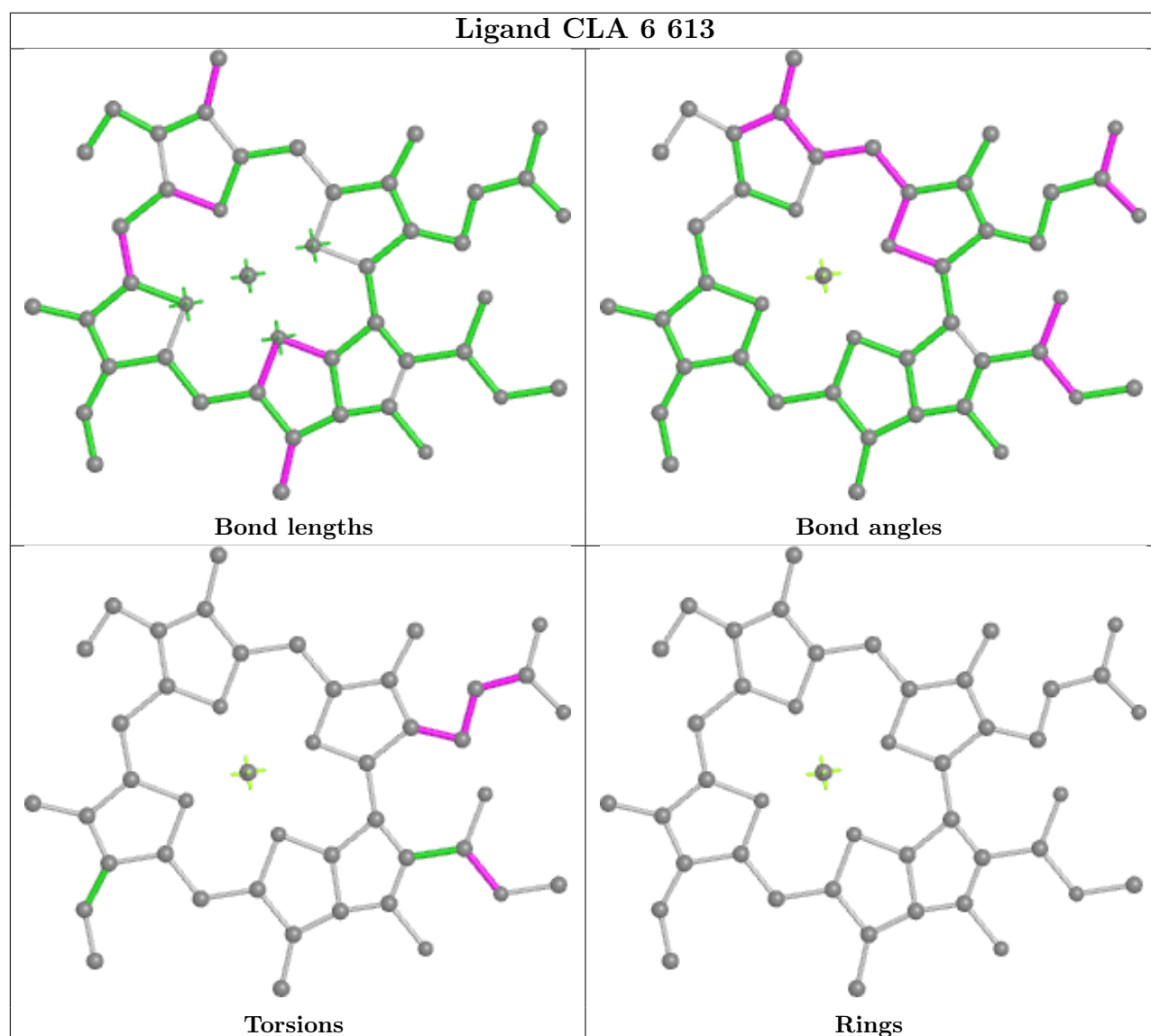


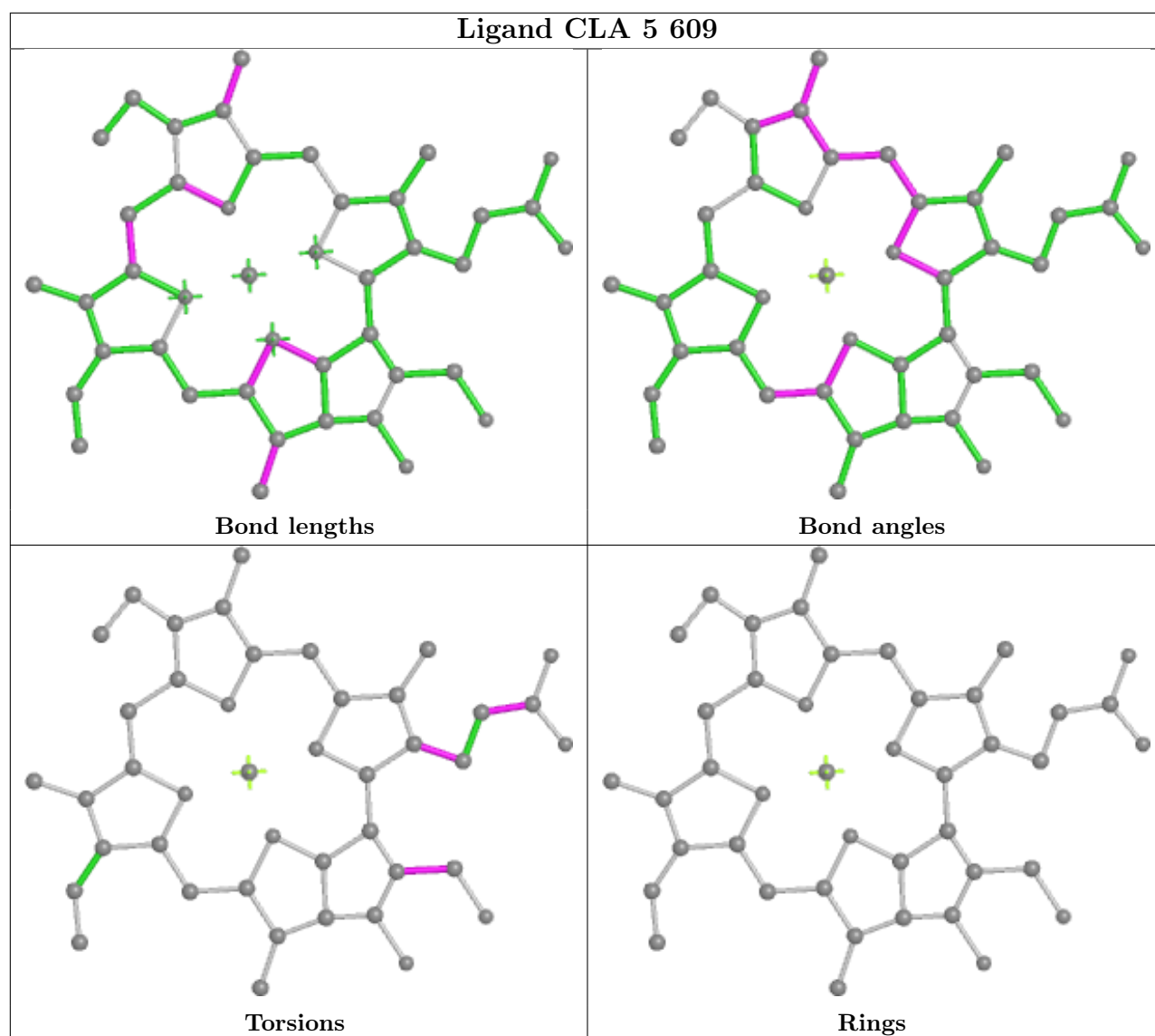


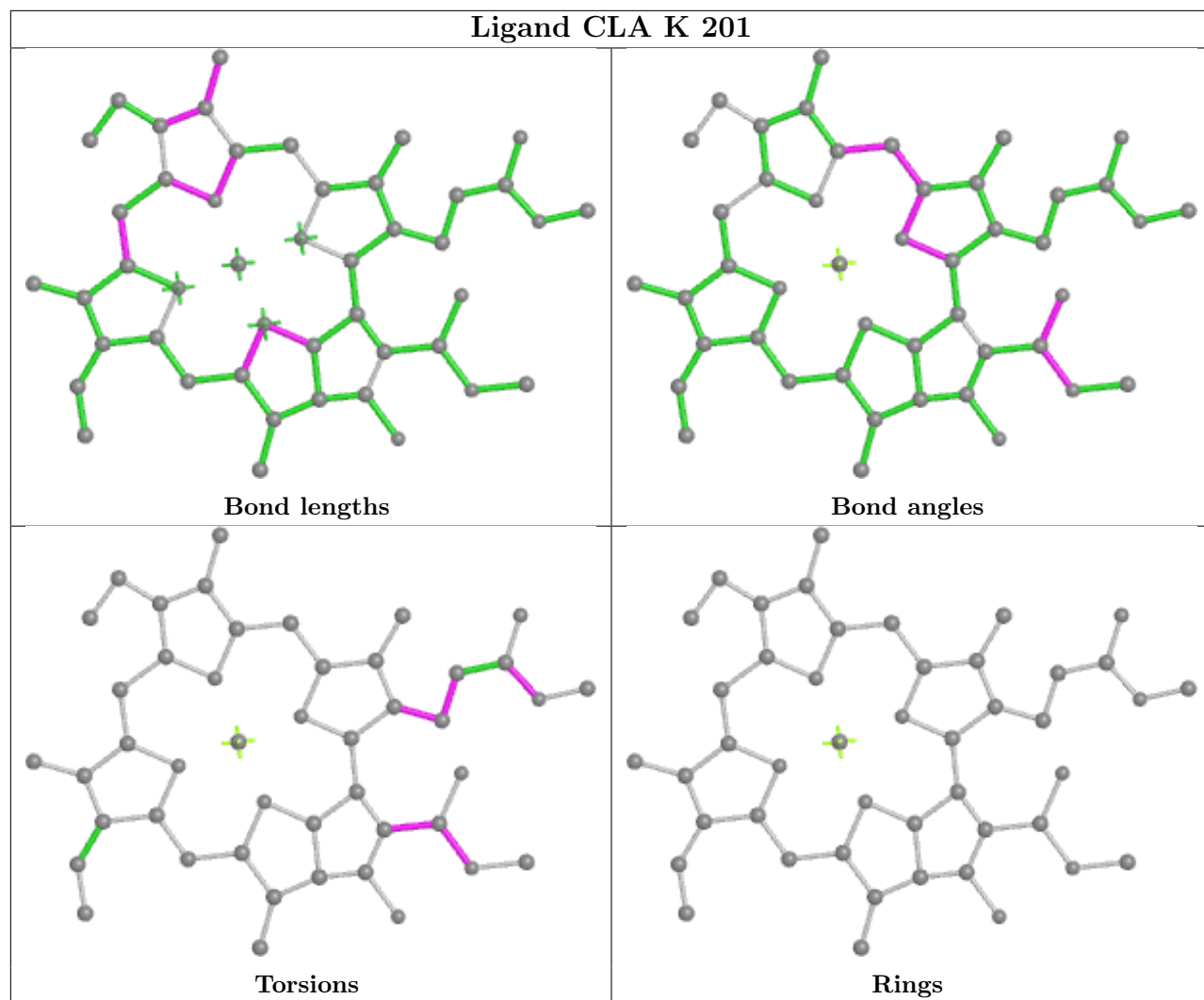


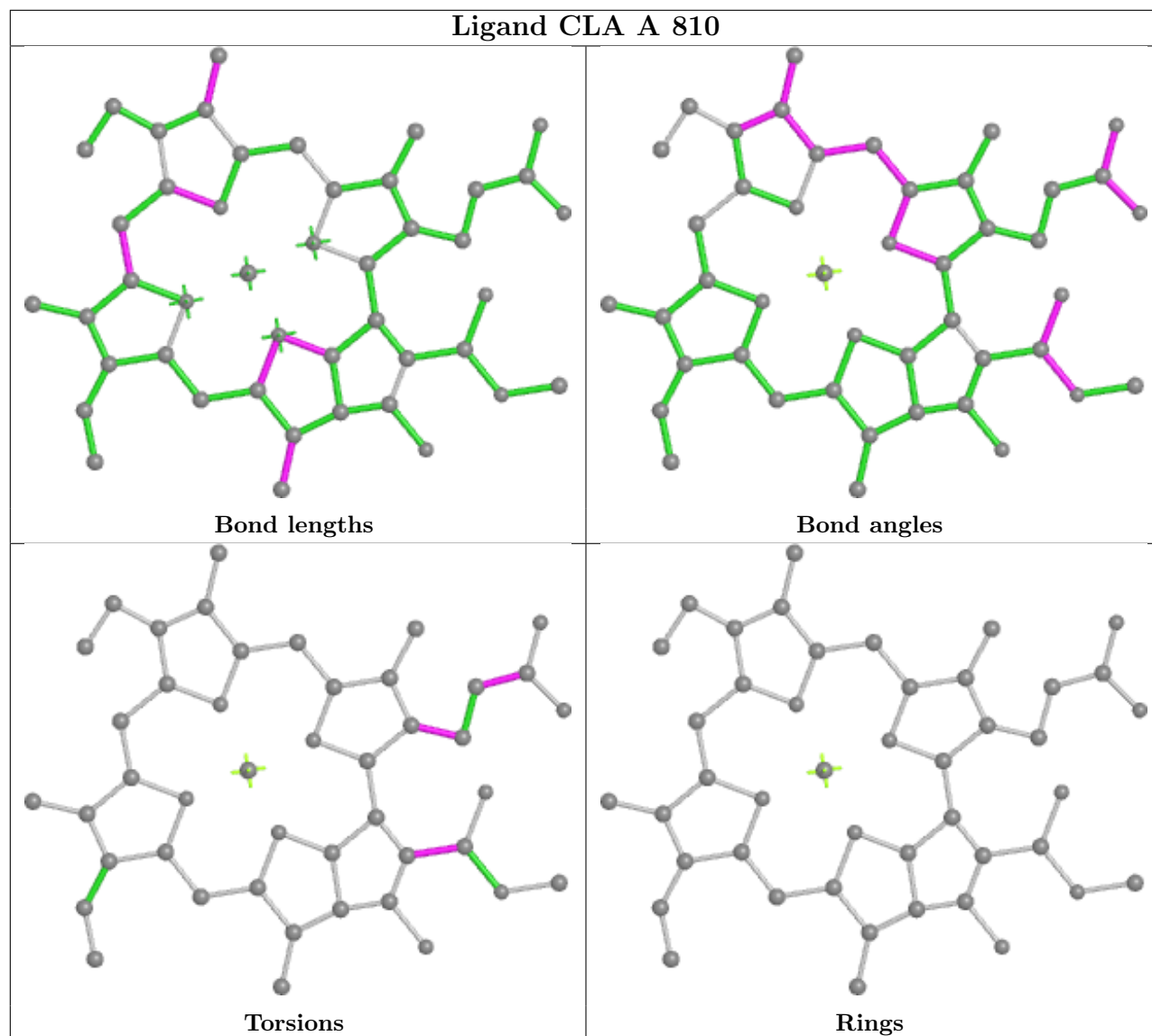


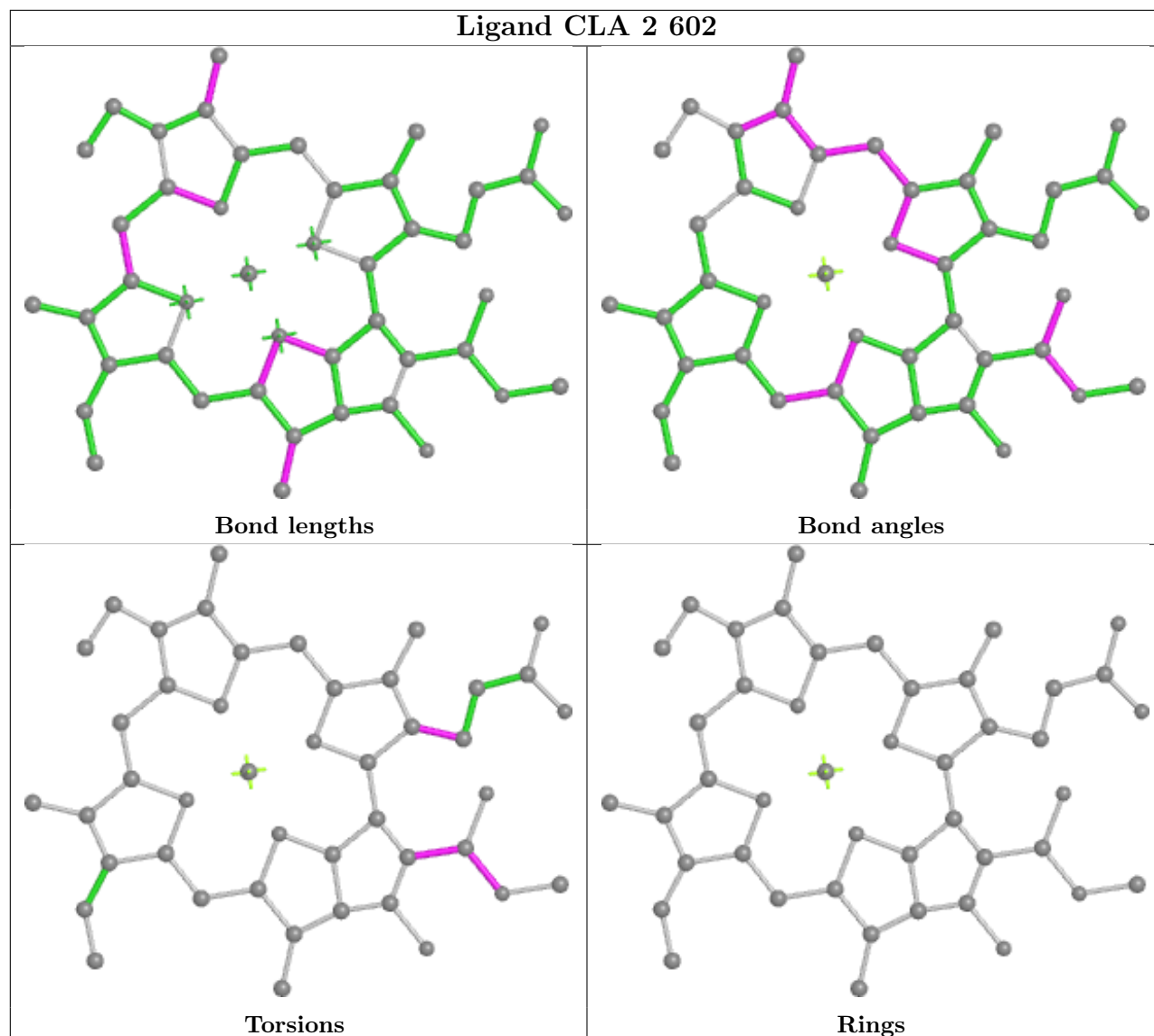




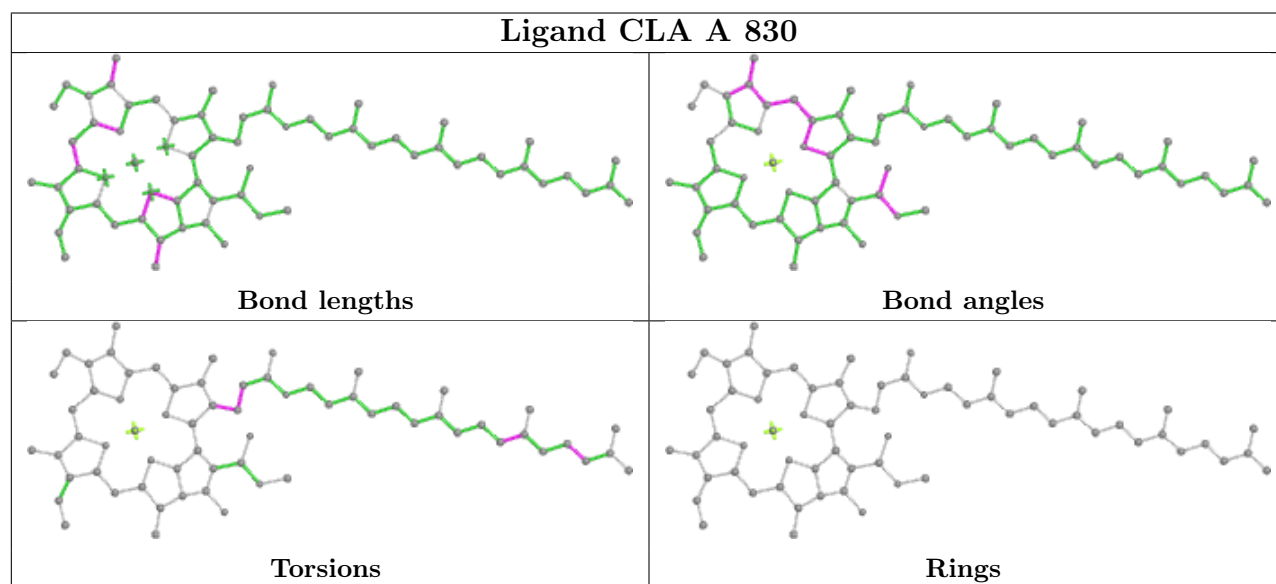
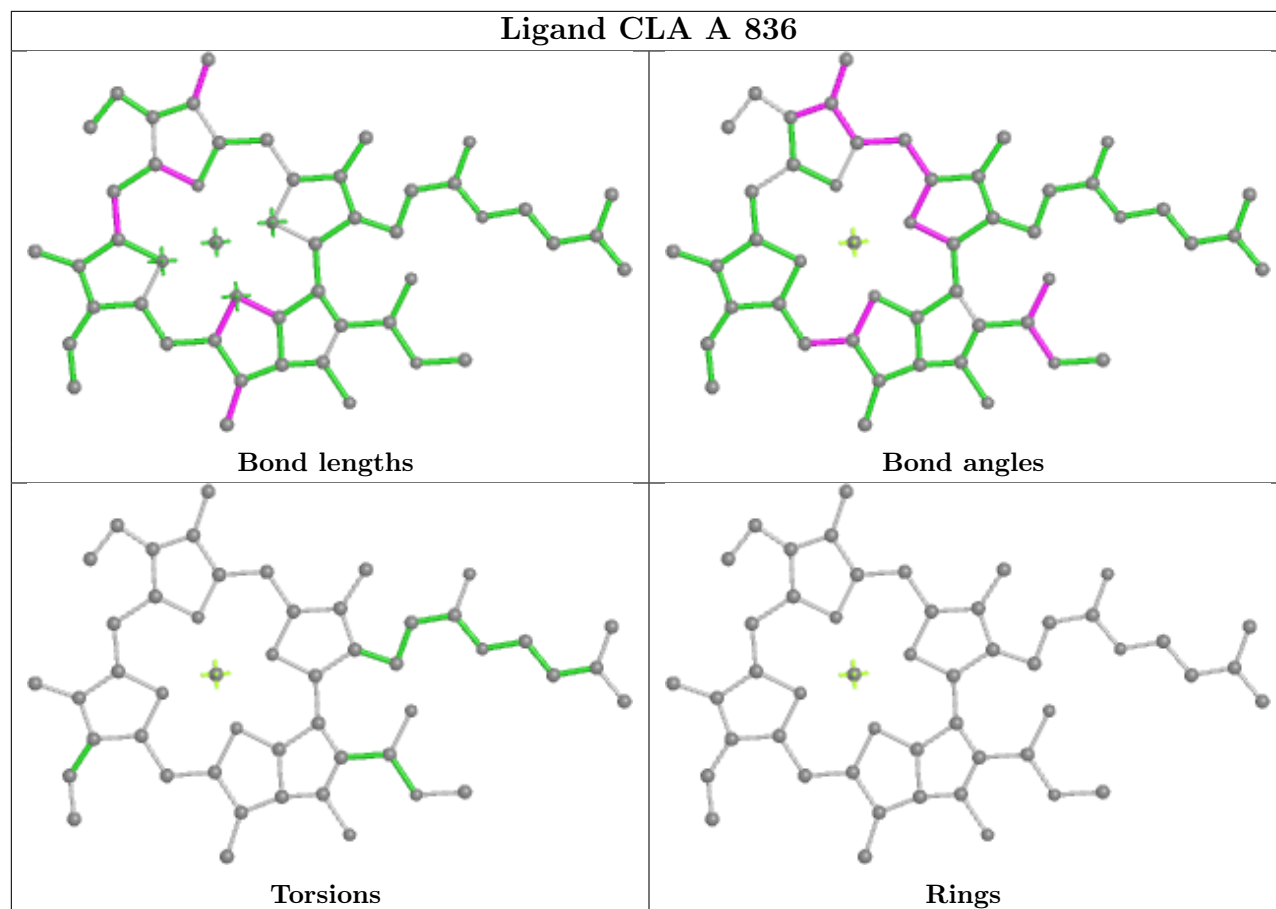


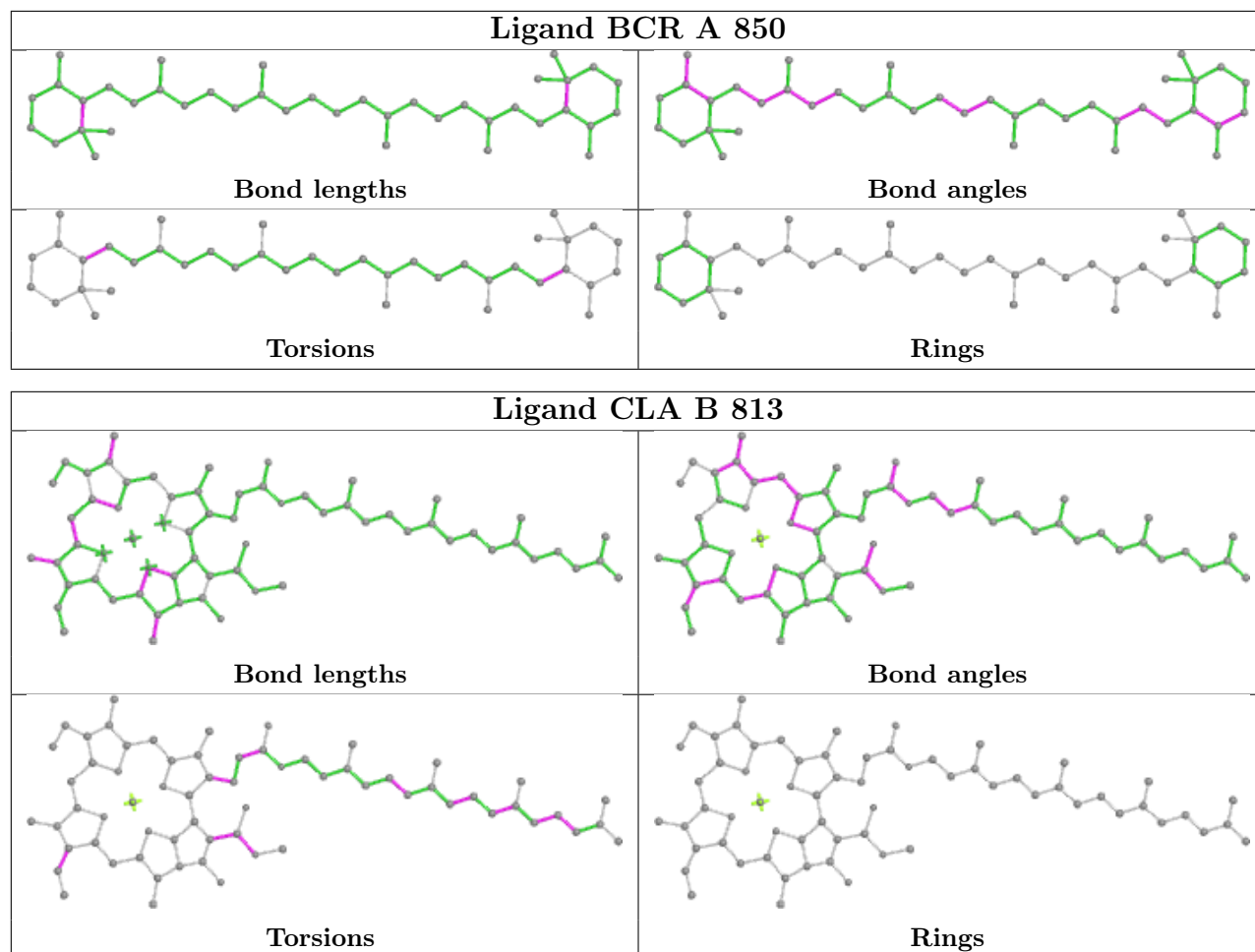


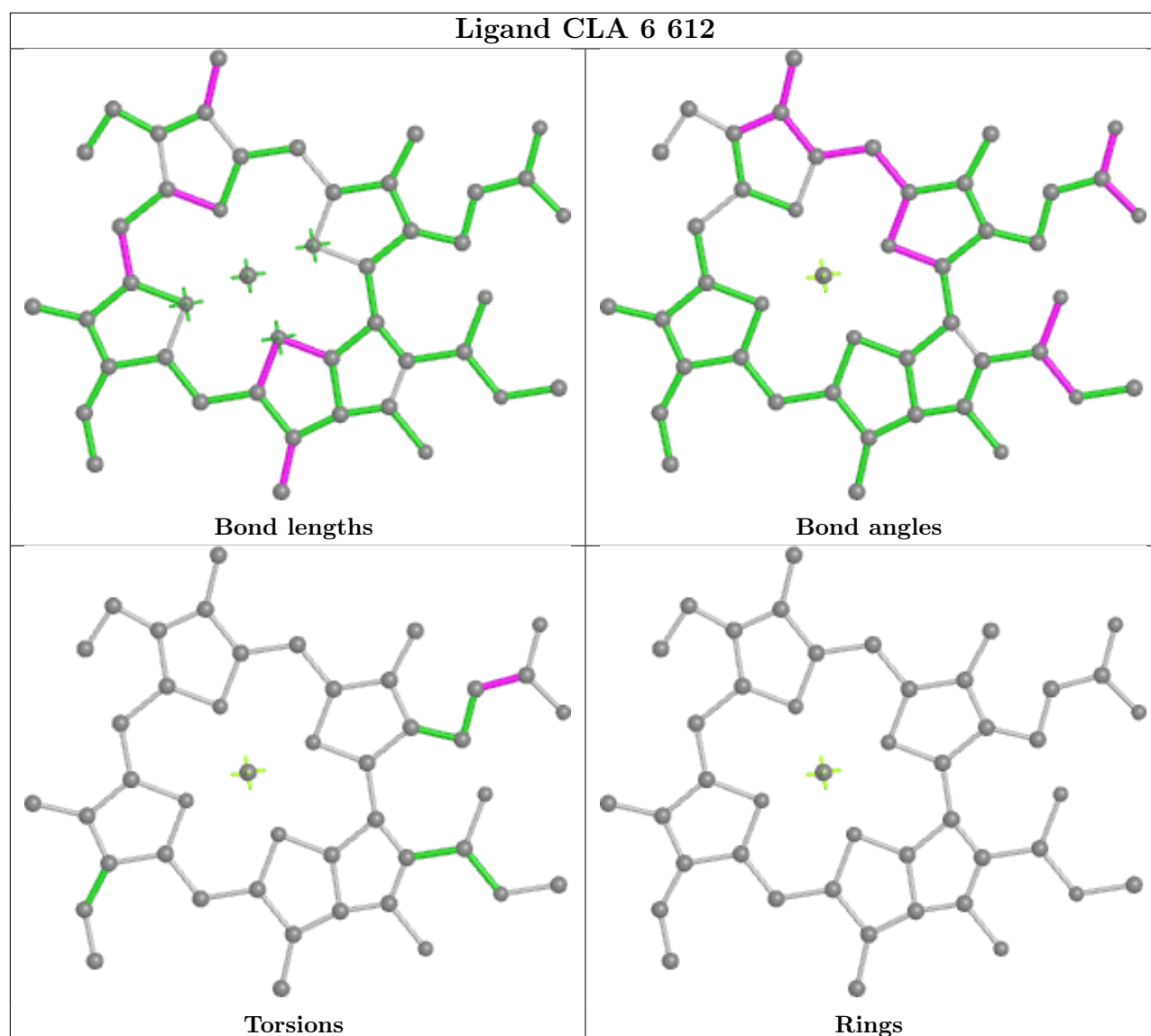


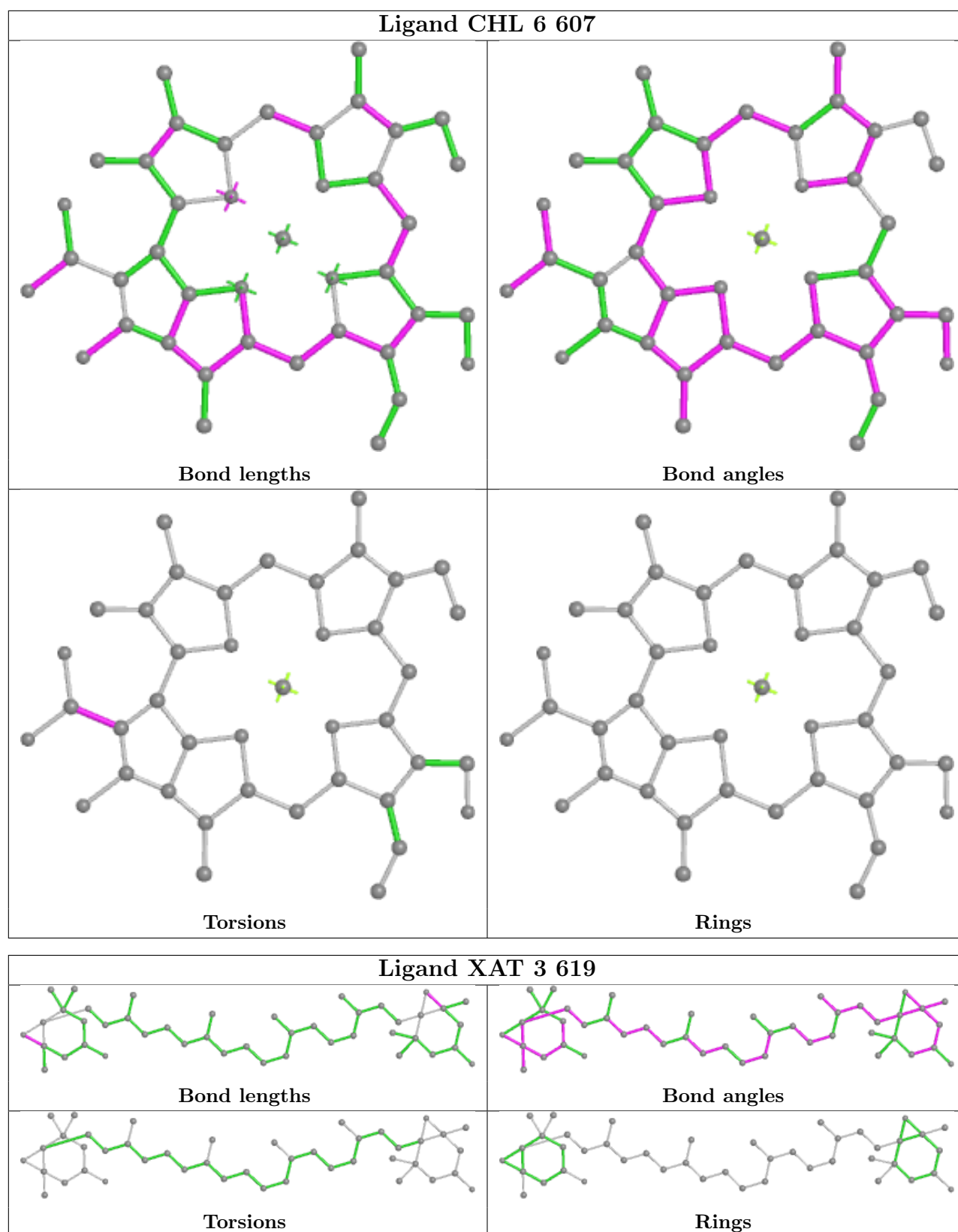


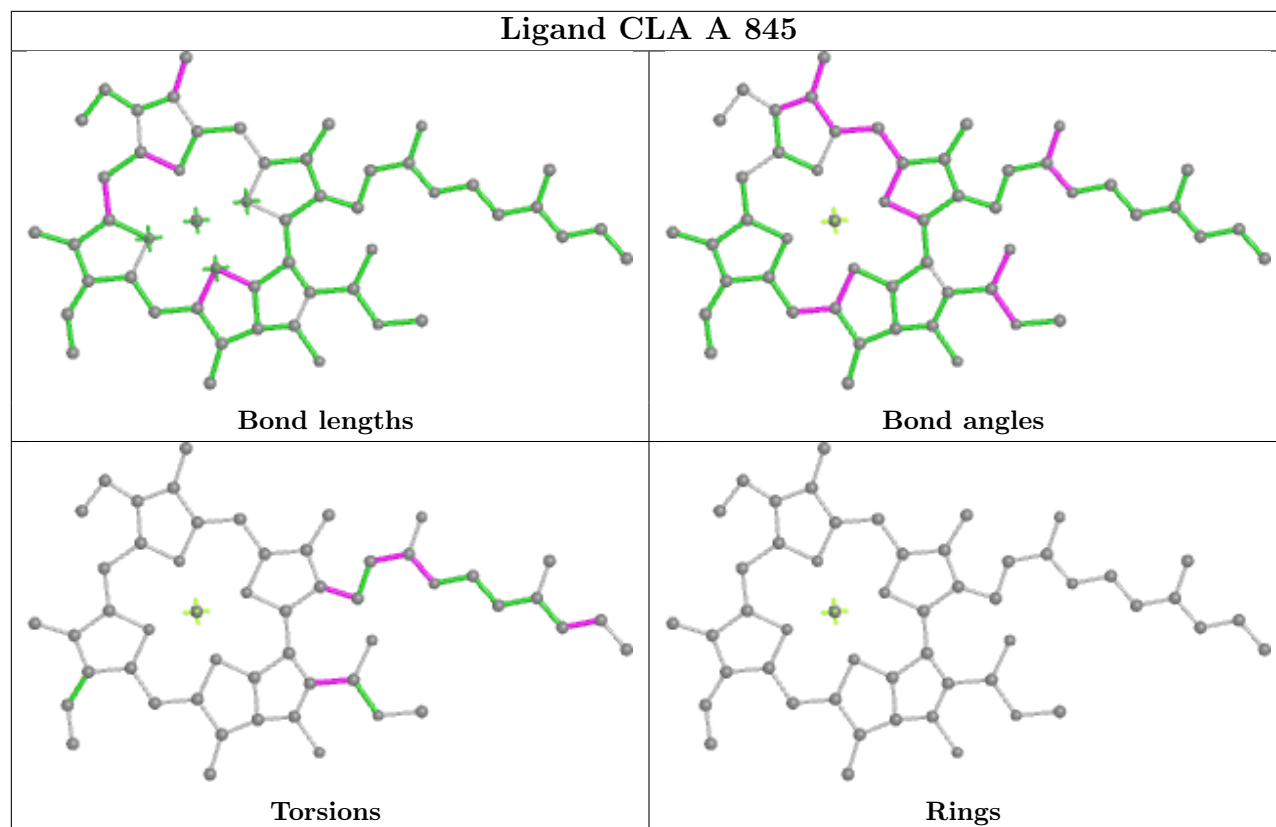


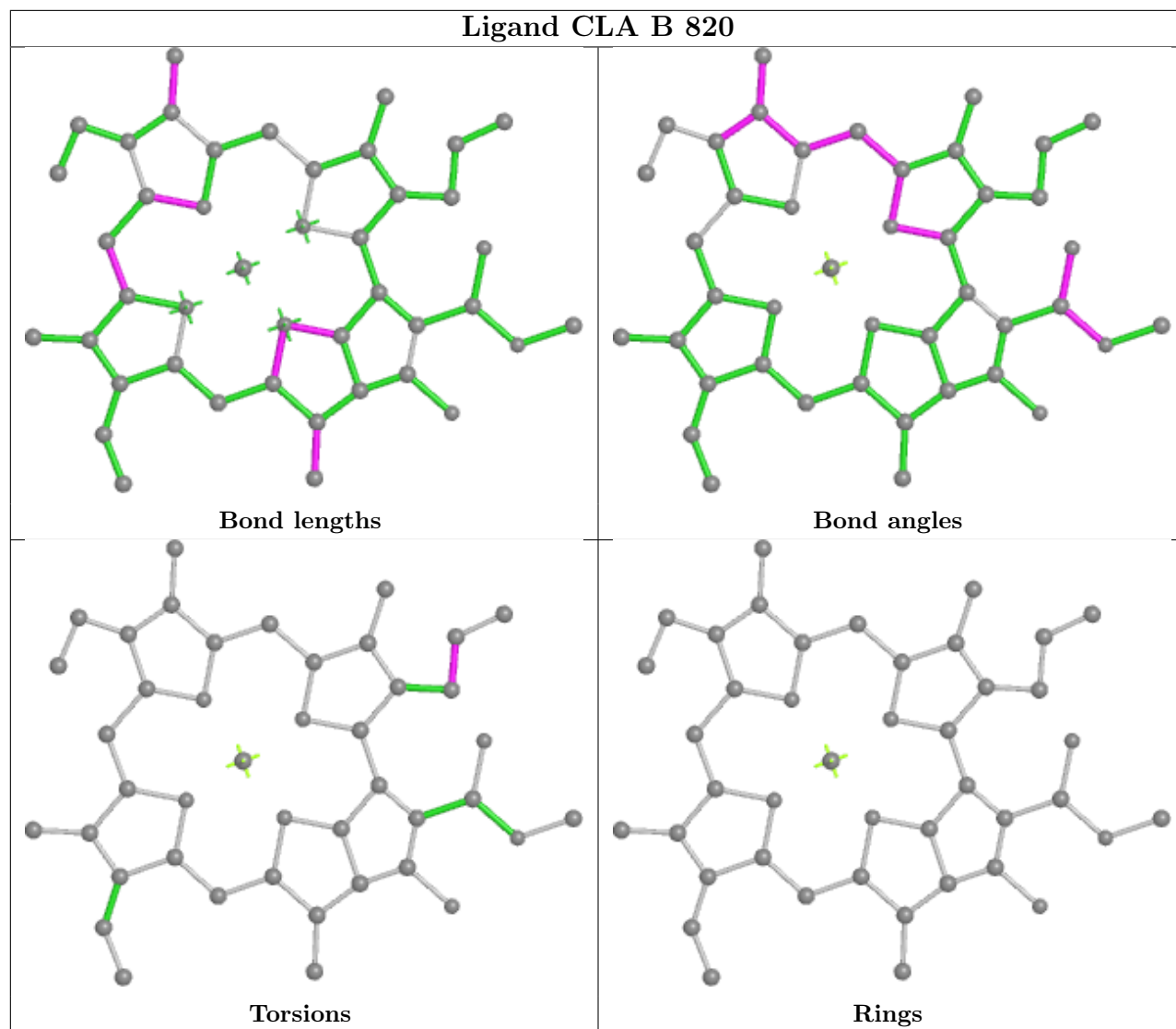


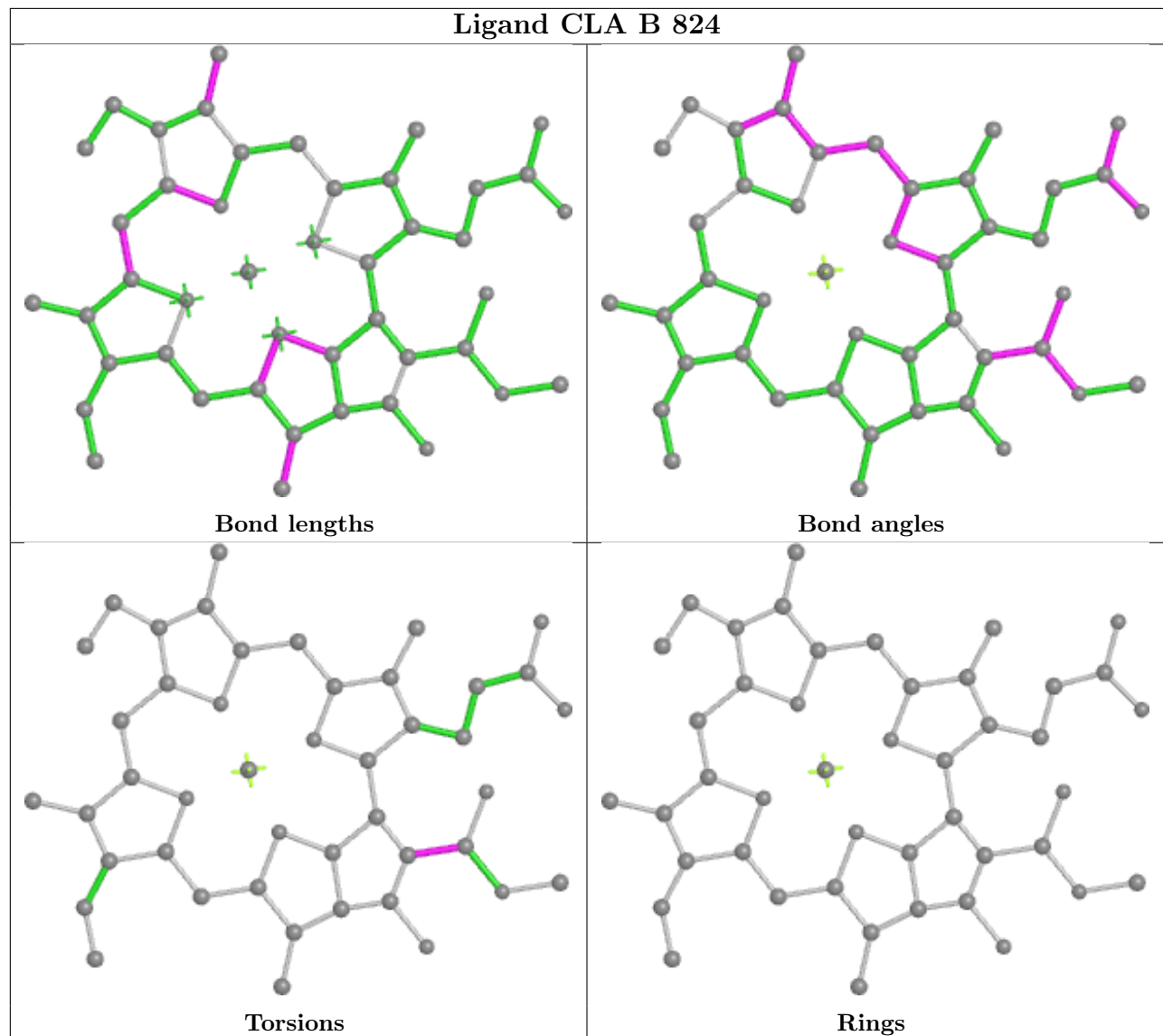


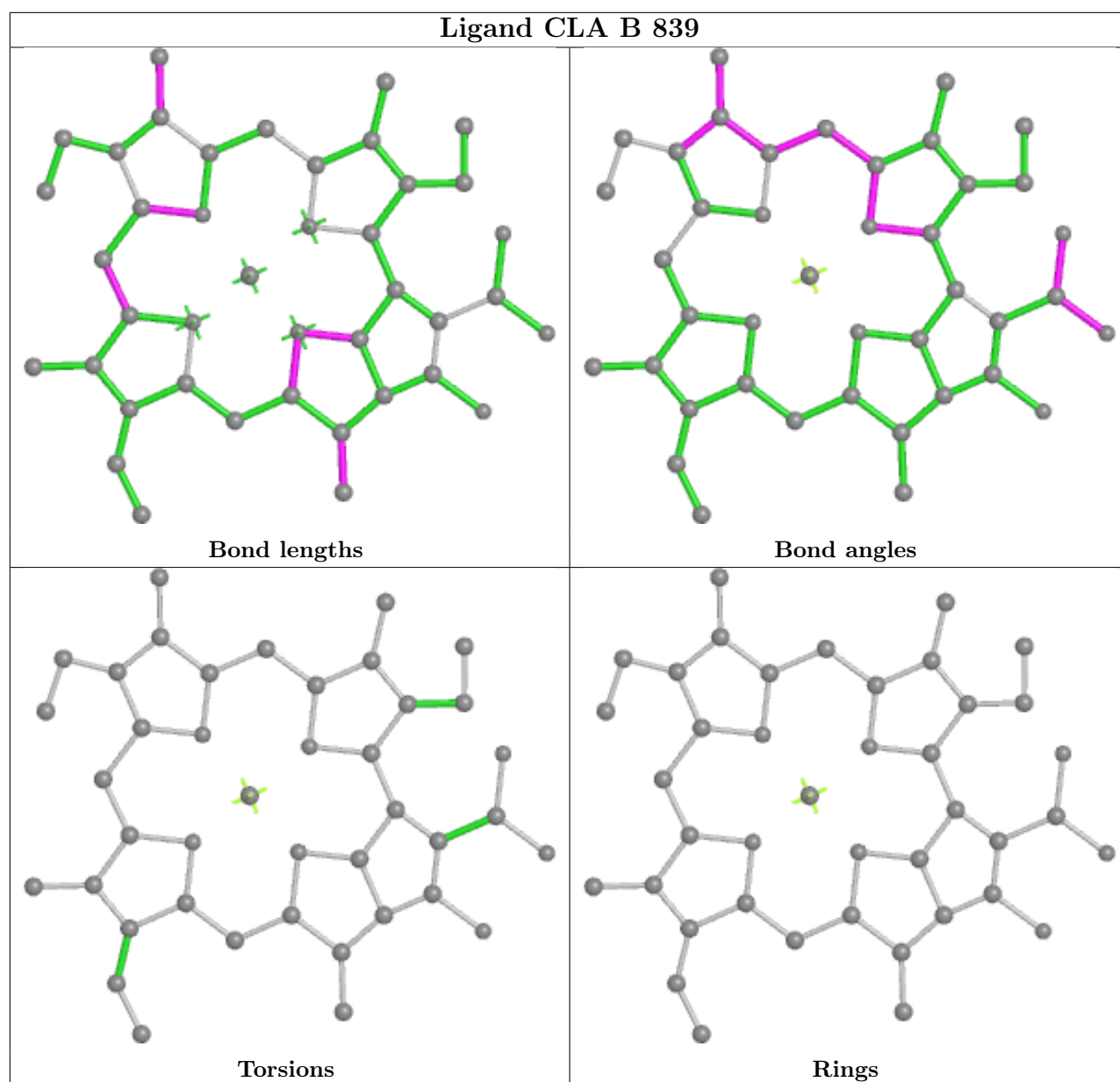












## 5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.



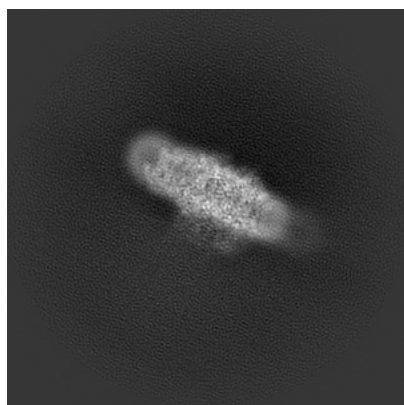
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0821. These allow visual inspection of the internal detail of the map and identification of artifacts.

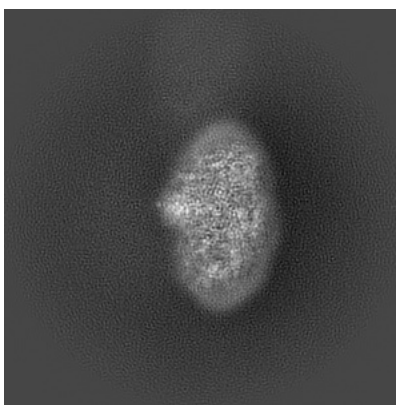
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

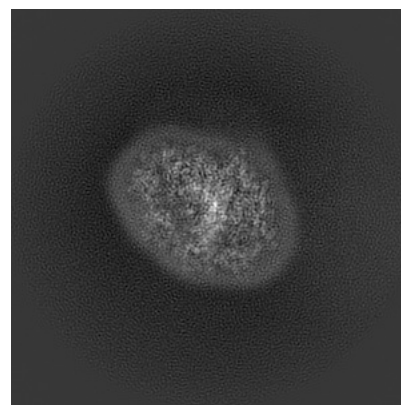
#### 6.1.1 Primary map



X



Y

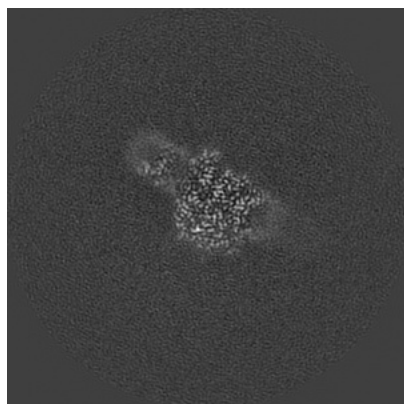


Z

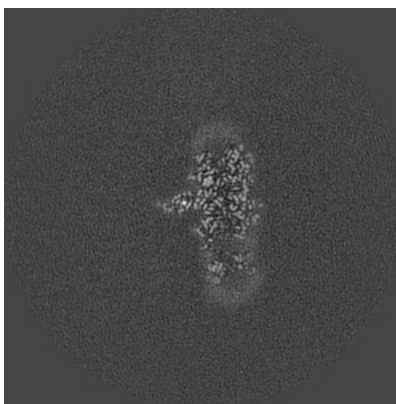
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

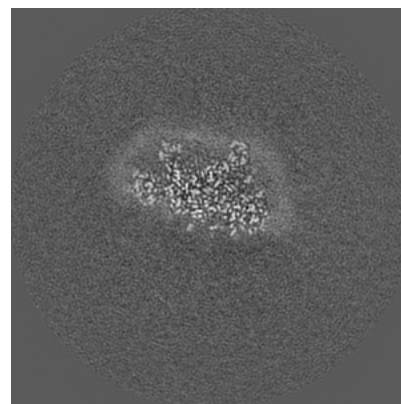
#### 6.2.1 Primary map



X Index: 192



Y Index: 192

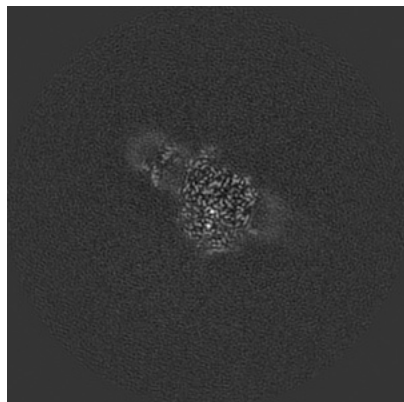


Z Index: 192

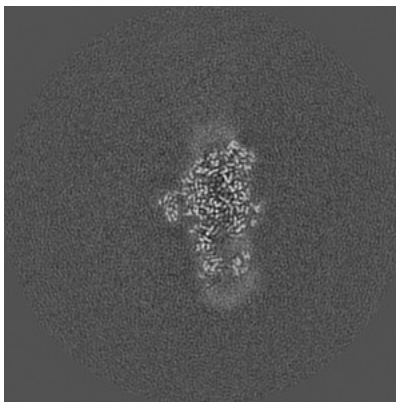
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

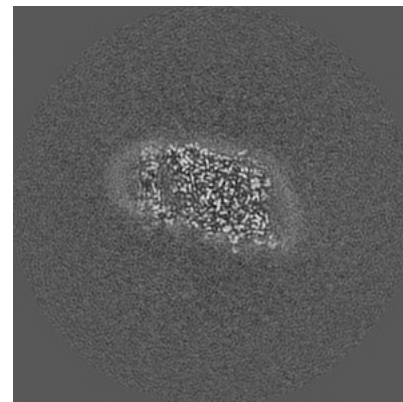
### 6.3.1 Primary map



X Index: 196



Y Index: 200



Z Index: 204

The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

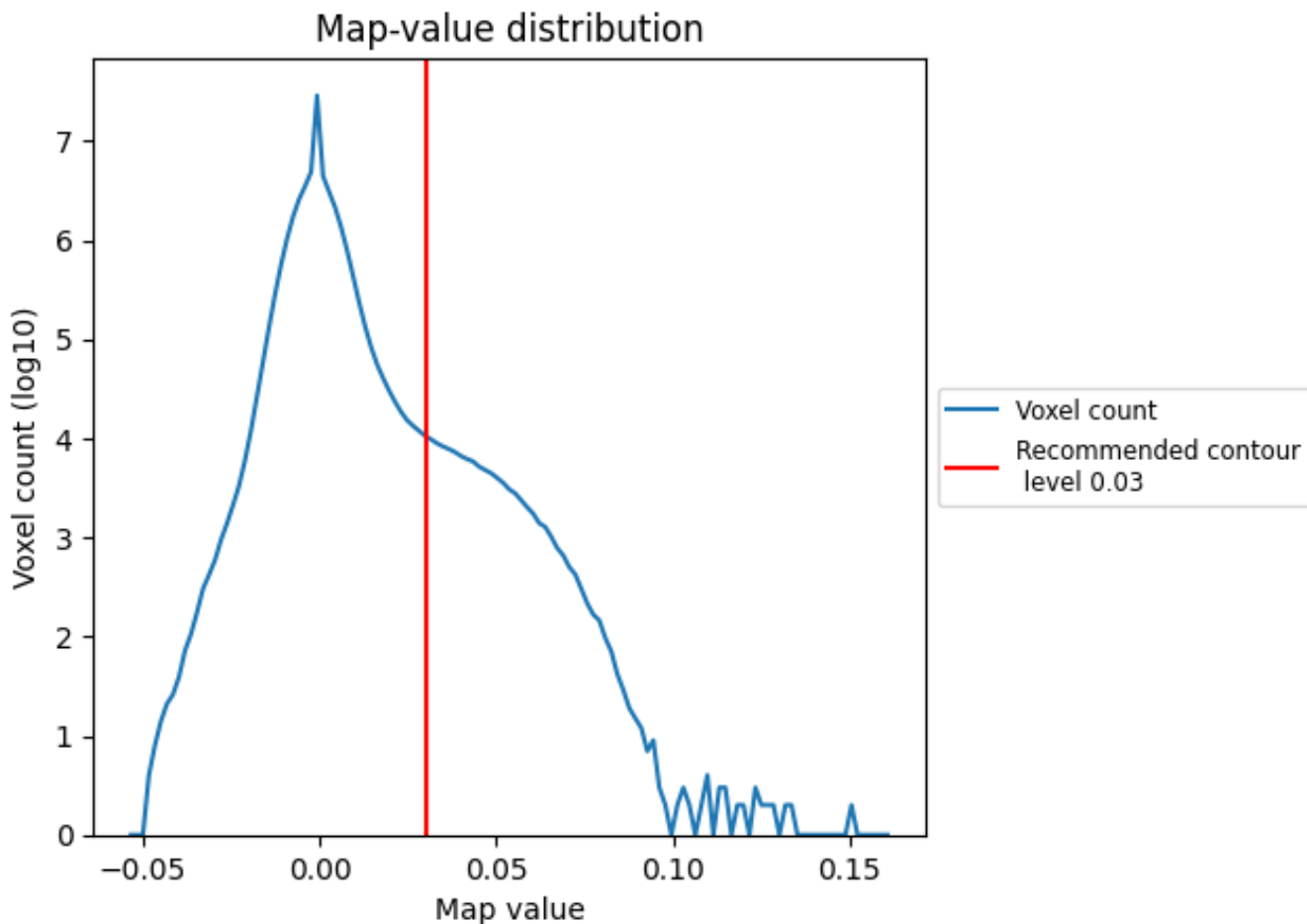
## 6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

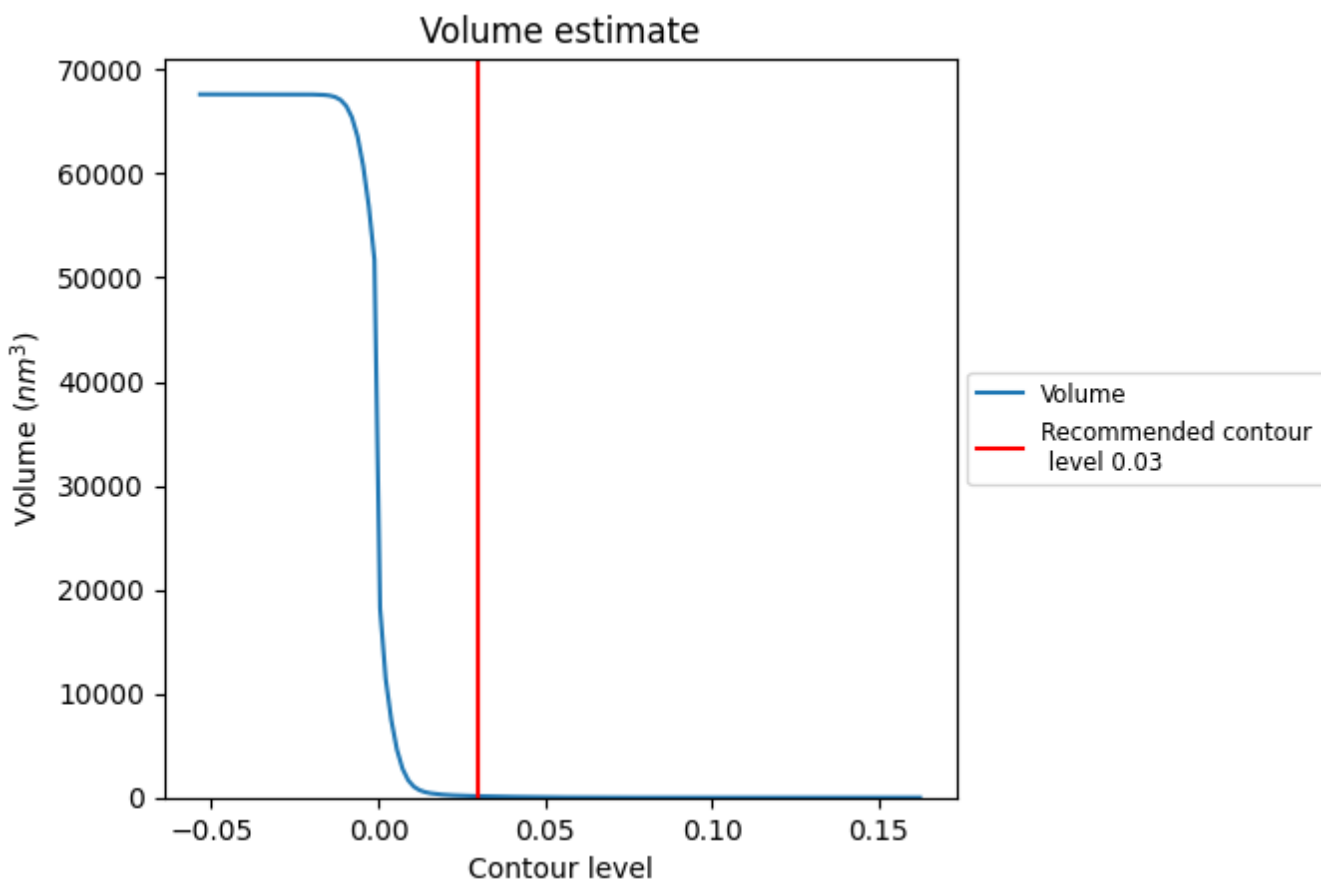
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

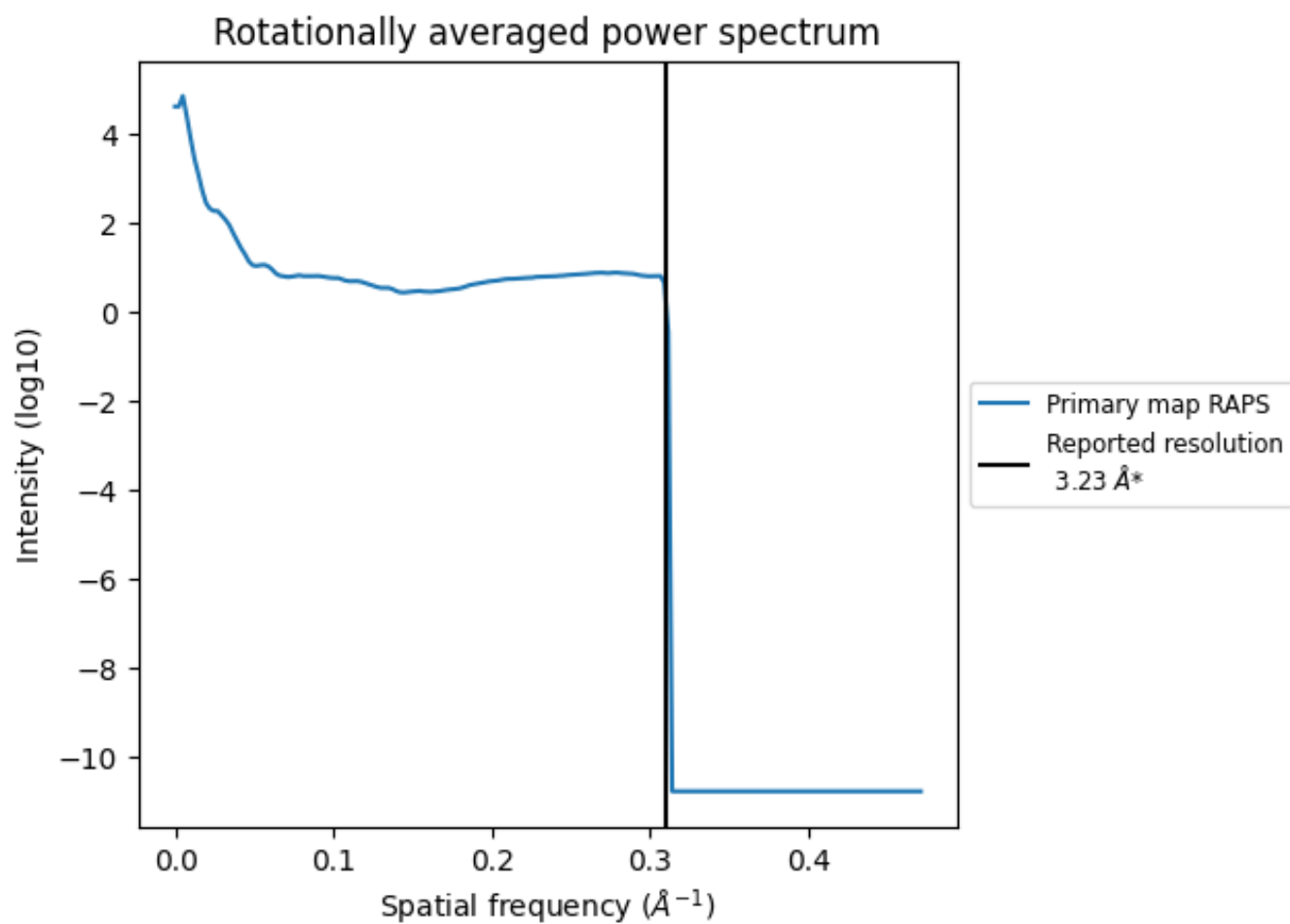
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 134 nm<sup>3</sup>; this corresponds to an approximate mass of 121 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum [\(i\)](#)

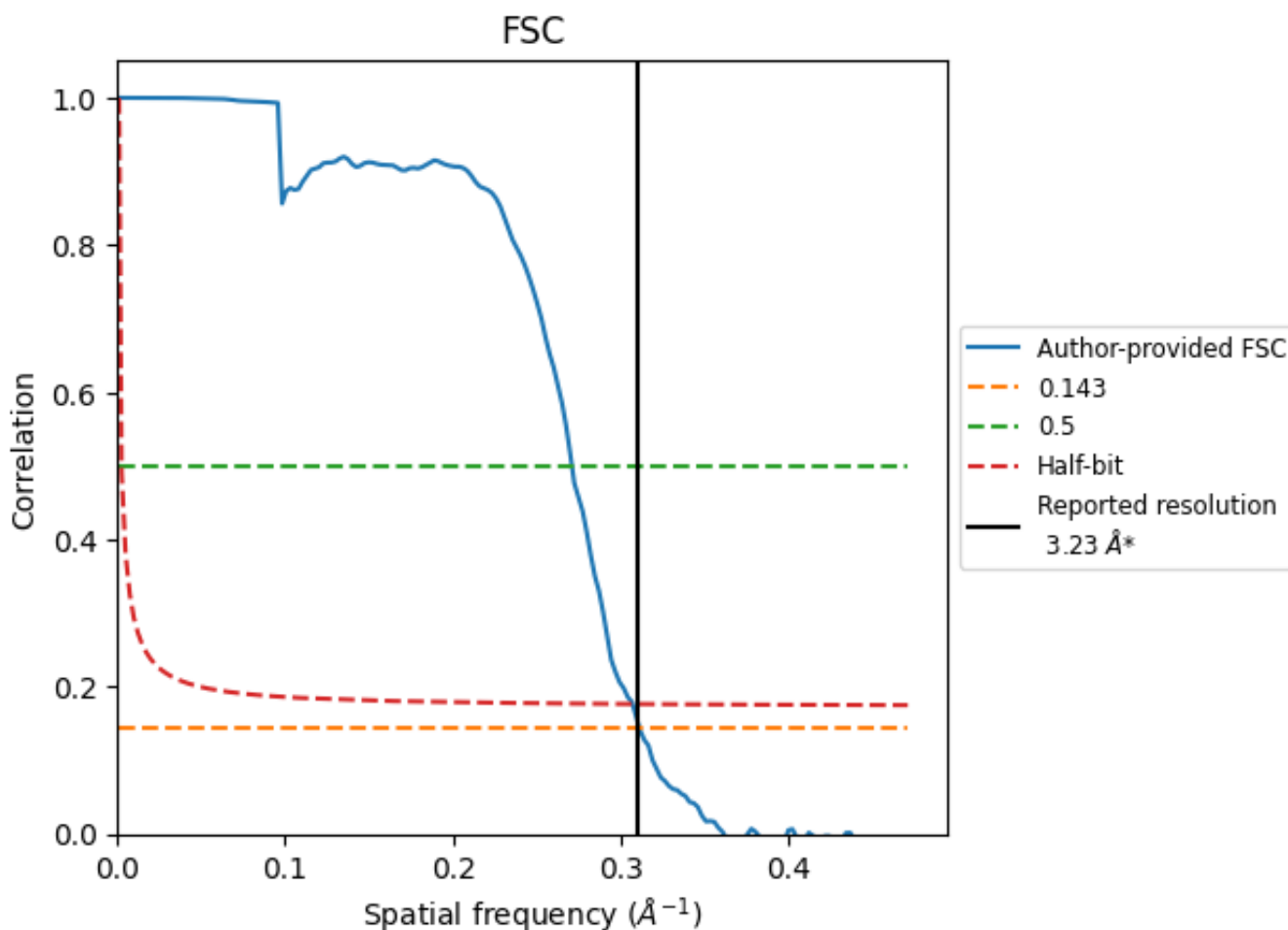


\*Reported resolution corresponds to spatial frequency of 0.310 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.310 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.23	-	-
Author-provided FSC curve	3.21	3.69	3.26
Unmasked-calculated*	-	-	-

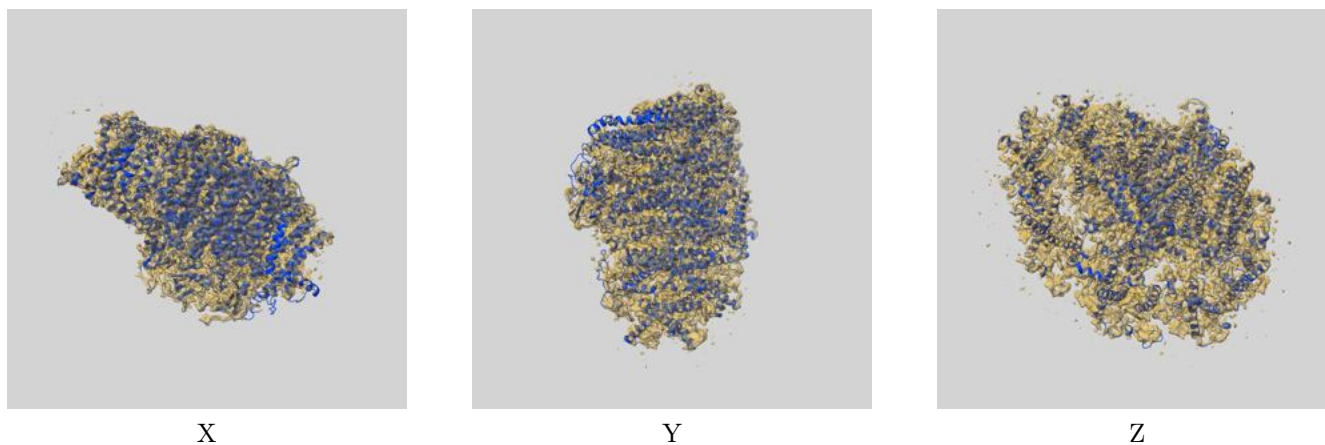
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.



## 9 Map-model fit [i](#)

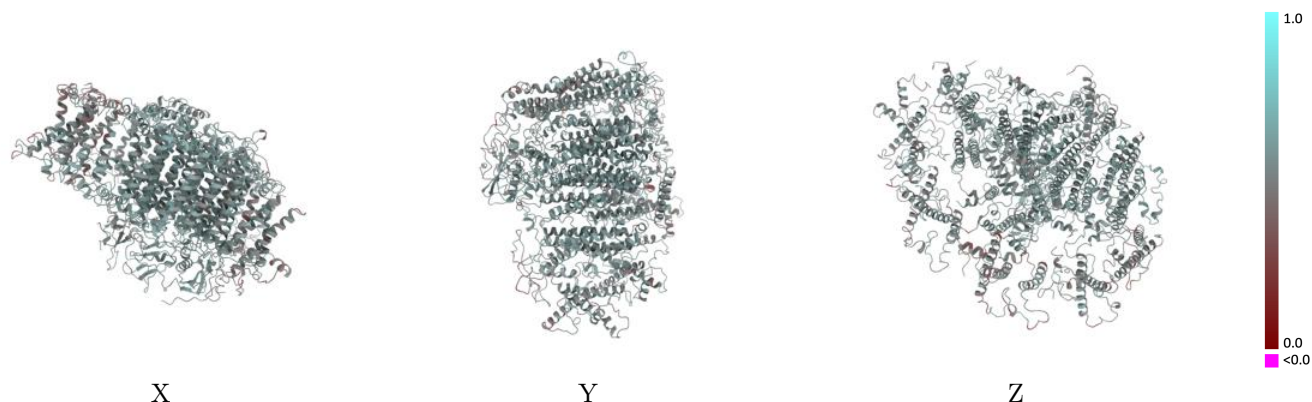
This section contains information regarding the fit between EMDB map EMD-0821 and PDB model 6L35. Per-residue inclusion information can be found in section 3 on page 26.

### 9.1 Map-model overlay [i](#)



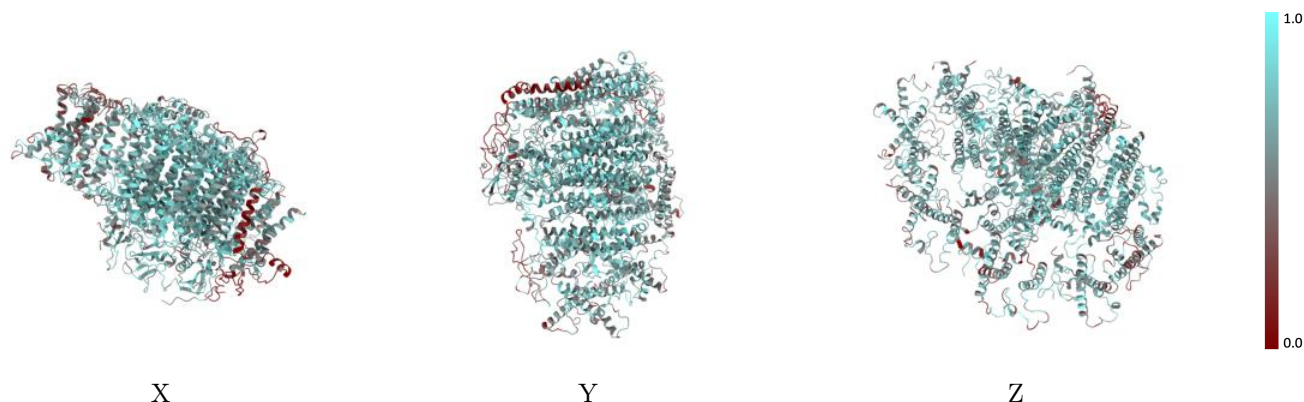
The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



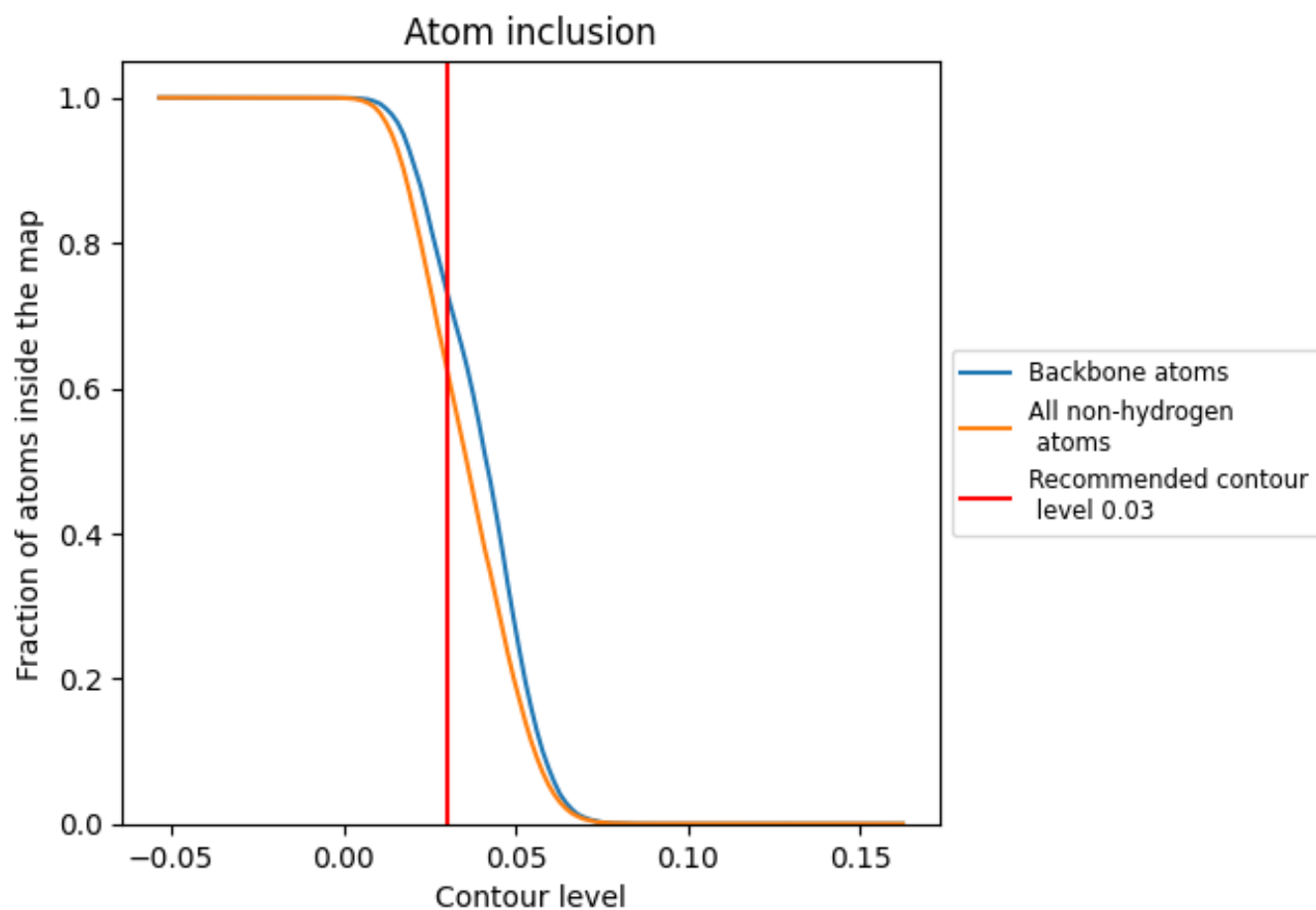
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.03).





































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 73% of all backbone atoms, 63% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6283	 0.5450
2	 0.5838	 0.5210
3	 0.5714	 0.5210
5	 0.5621	 0.4890
6	 0.5767	 0.5130
A	 0.7031	 0.5700
B	 0.7097	 0.5730
C	 0.7404	 0.5450
D	 0.6355	 0.5470
E	 0.6674	 0.5550
F	 0.6184	 0.5420
G	 0.5077	 0.5190
H	 0.1309	 0.4850
I	 0.5559	 0.5500
J	 0.5629	 0.5490
K	 0.4193	 0.5040
L	 0.4854	 0.5170
M	 0.6066	 0.5250

